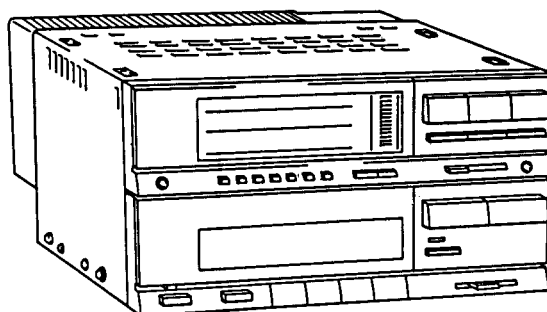


TA-909

SERVICE MANUAL

*UK Model
West Germany Model
E Model*



- TA-909 is the INTEGRATED STEREO AMPLIFIER in FH-909CD/909R.

SPECIFICATIONS

Continuous RMS power output (UK, West Germany model)
45 + 45 W
(6 ohms, at 1 kHz, 5% THD)

Peak music power output (E, Saudi Arabia model)
380 W (6 ohms)

Inputs

Input jacks	Jack type	Sensitivity	Impedance
PHONO	Phono	2.5 mV	50 kohms
CD/AUX	Phono	450 mV	50 kohms
MIC	Stereo mini	1 mV	600 ohms

Outputs

HEADPHONES (stereo phone jack)	Accepts headphones of 8 ohms or more
SPEAKER	Accepts speakers of 6 to 16 ohms

General

Power requirements

West Germany model:
220V AC (240 V AC, adjustable by authorized
Sony personnel), 50 Hz

UK model:
240 V AC (220 V AC, adjustable by authorized
Sony personnel), 50 Hz

E, Saudi Arabia model:
120, 220 or 240 V AC, adjustable, 50/60 Hz

Power consumption

West Germany model: 110 W

UK model: 220 W

E, Saudi Arabia model: 110 W

Dimensions
Approx. 220 × 120 × 280 mm (w/h/d)
(8³/₄ × 4³/₄ × 11¹/₄ inches)

Weight
incl. projecting parts and controls
Approx. 4.5 kg (10 lb) net

TABLE OF CONTENTS

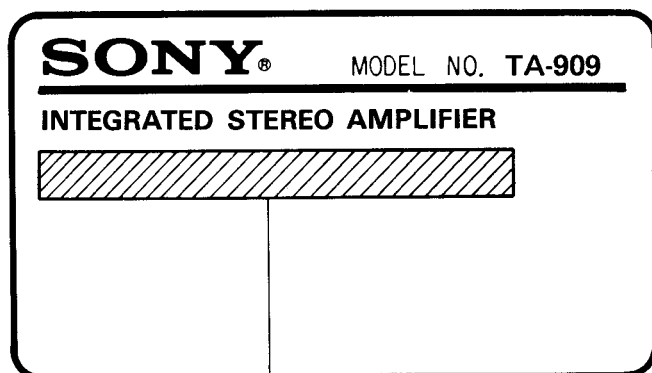
<u>Section</u>	<u>Title</u>	<u>Page</u>
	Specifications	1
	Model Identification	2
1. GENERAL		
1-1.	Location and Function of Controls	3
2. DIAGRAMS		
2-1.	IC Block Diagrams	5
2-2.	Printed Wiring Boards	8
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INTEGRATED STEREO AMPLIFIER
SONY®



MODEL IDENTIFICATION

— *Specification Label* —





UK model: AC: 240 V ~ 50 Hz 220 W

West Germany model: AC: 220 V ~ 50 Hz 110 W

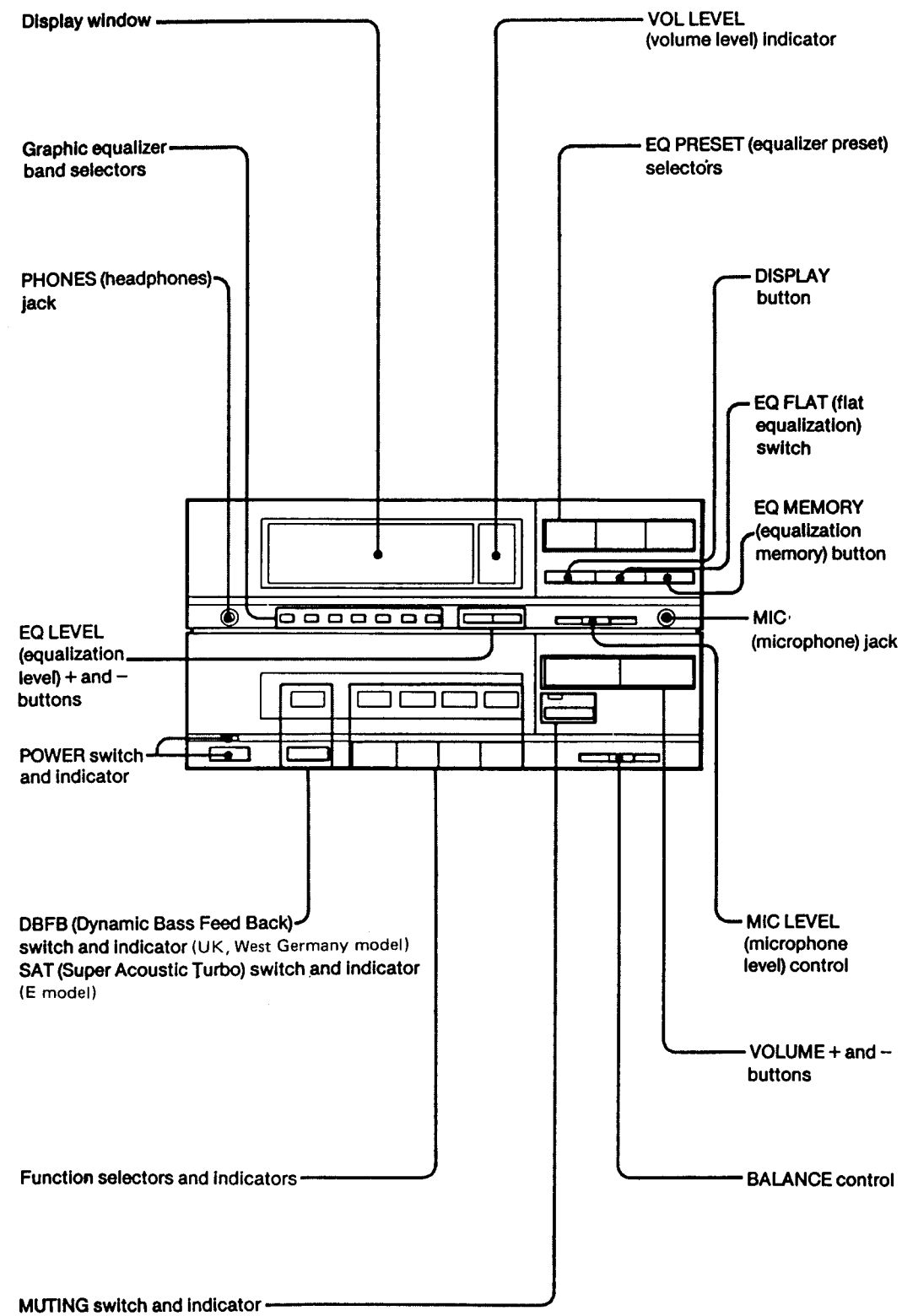
E, Saudi Arabia model: AC: 120/220/240 V ~ 50/60 Hz 110 W

SAFETY-RELATED COMPONENT WARNING!!

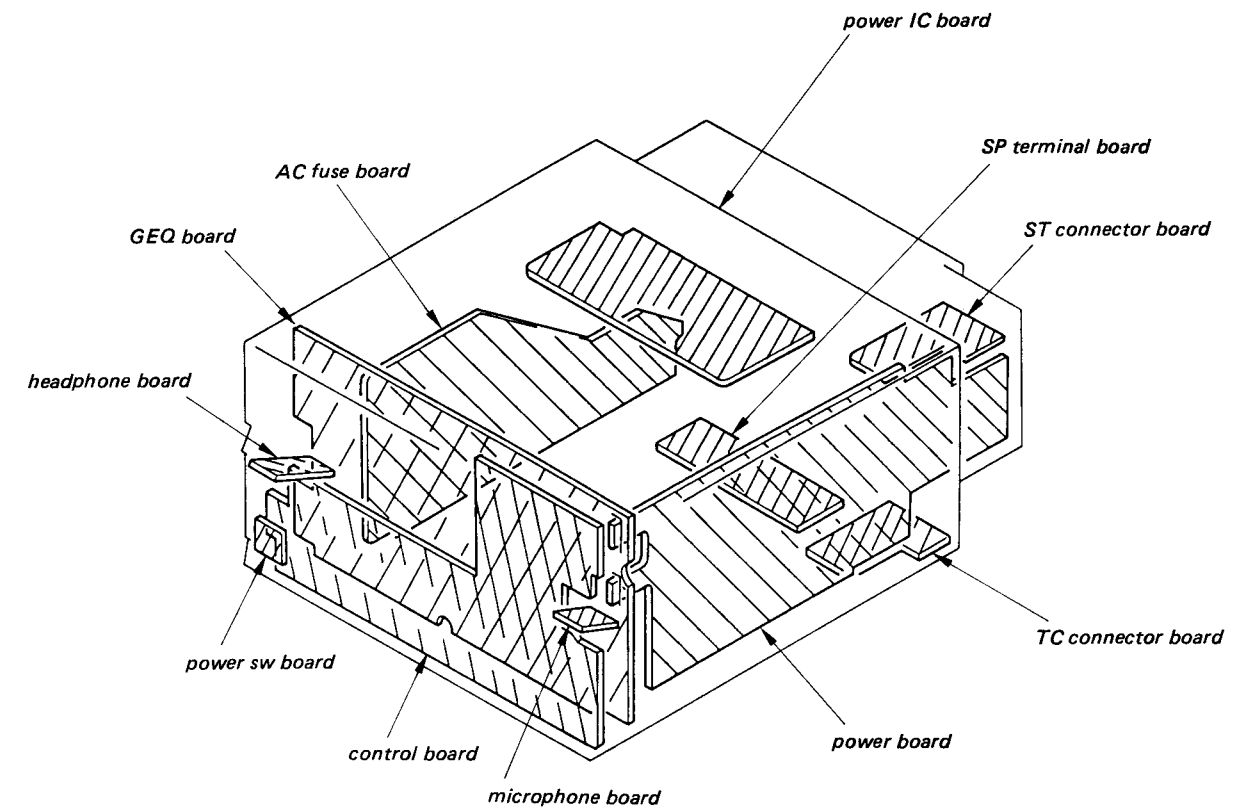
COMPONENTS IDENTIFIED BY MARK  OR DOTTED LINE WITH MARK  ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

SECTION 1 GENERA

1-1. LOCATION AND FUNCTION OF CONTROLS

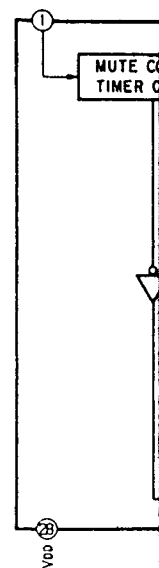


• CIRCUIT BOARDS LOCATION

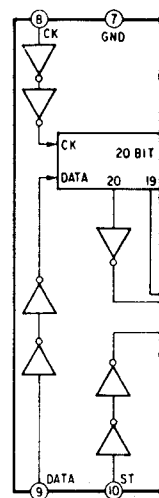
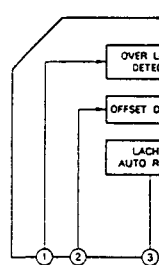


2-1. IC BLOCK

IC102 LC781

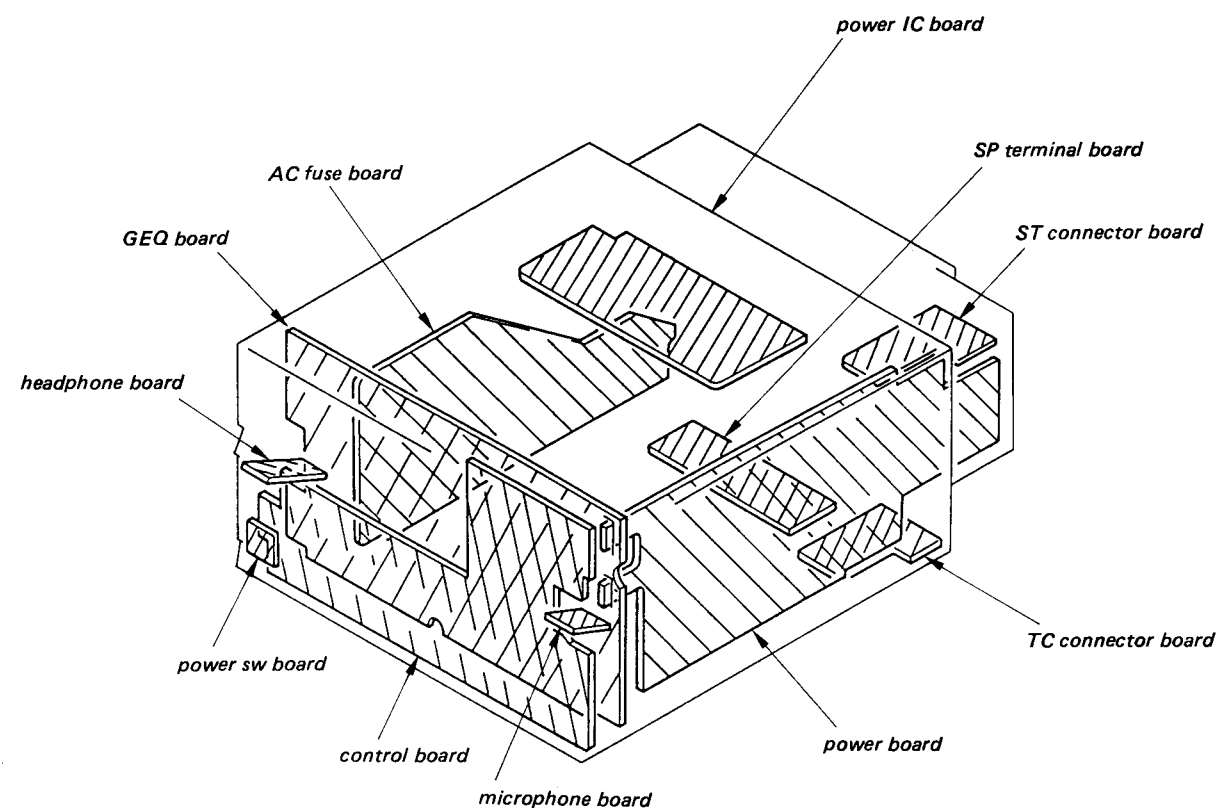


IC405 TC917

IC701 μ PC12

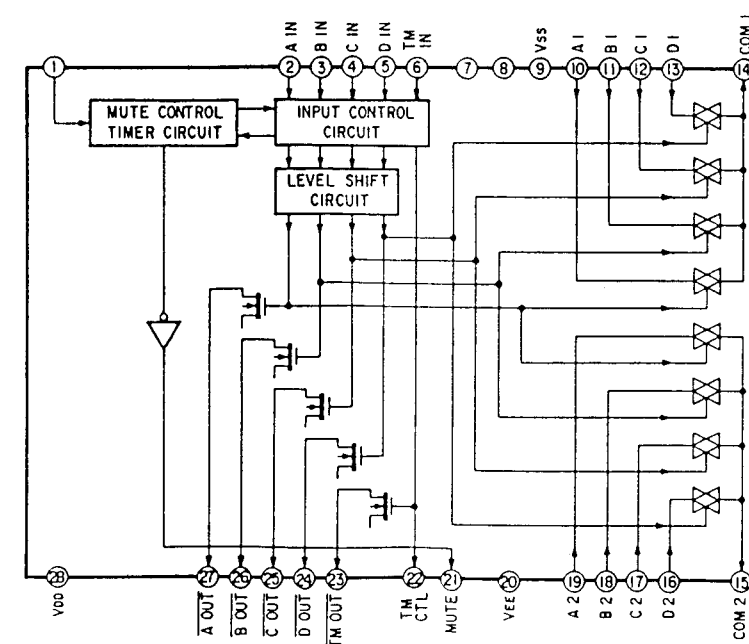
SECTION 2 DIAGRAMS

• CIRCUIT BOARDS LOCATION

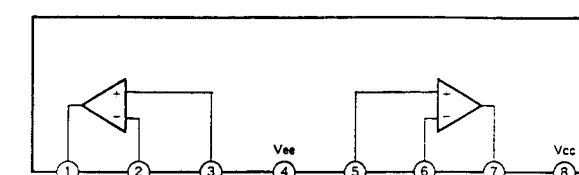


2-1. IC BLOCK DIAGRAMS

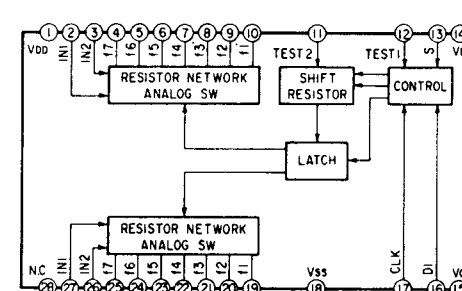
IC102 LC7815M



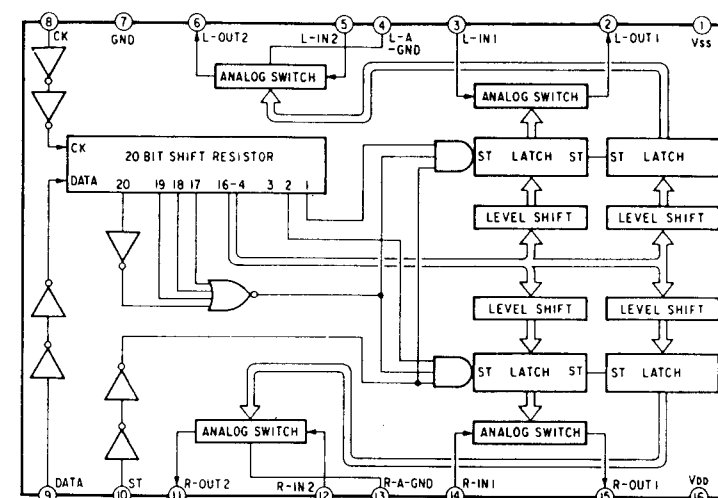
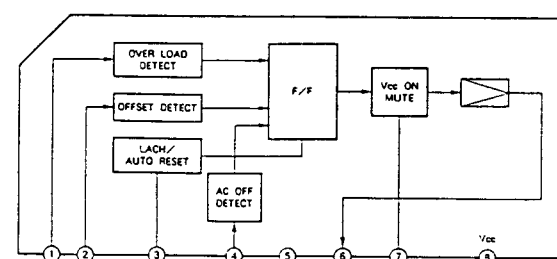
IC302, 401, 601 M5218L



IC402 LC7522

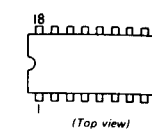


IC405 TC9176P

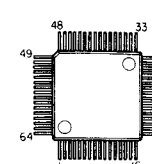
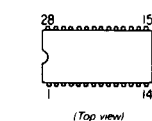
IC701 μ PC1237HA

• Semiconductor L

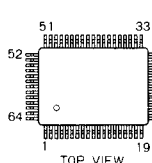
LC6528C-3649



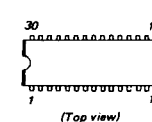
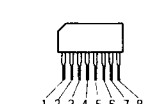
LC7060AN

LC7522
LC7815H

LC7560B

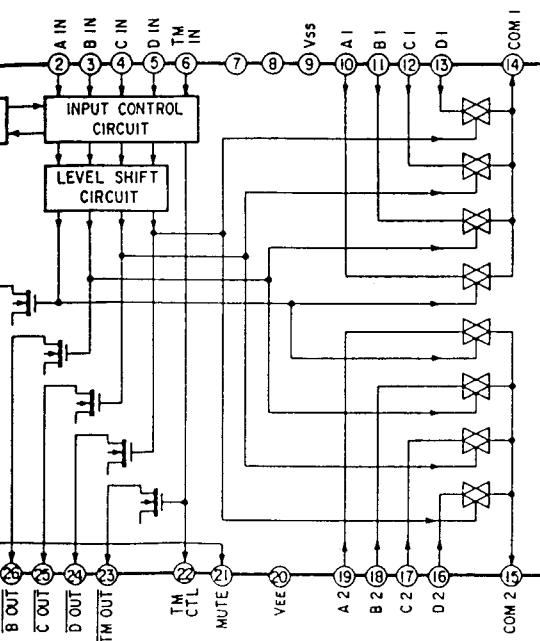


M50765-440SP

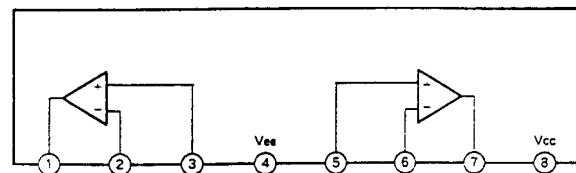
M5218L
 μ PC1237HA

SECTION 2 DIAGRAMS

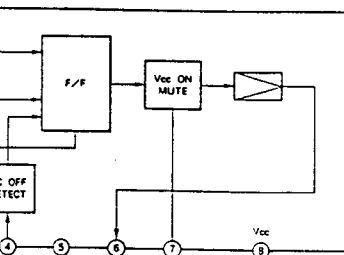
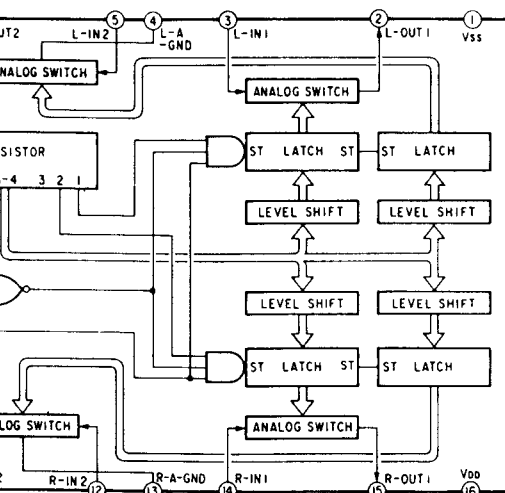
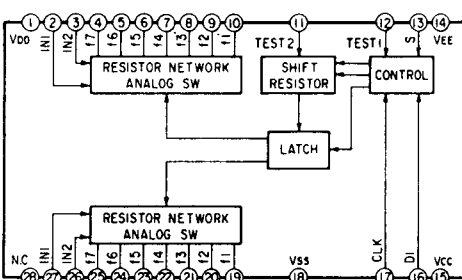
DIAGRAMS



IC302, 401, 601 M5218L

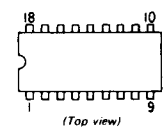


IC402 LC7522

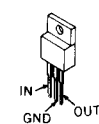


Semiconductor Lead Layouts

LC6528C-3649



M5F7806
M5F7810
M5F7910



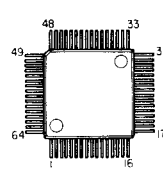
2SB1013
2SC1841-PA



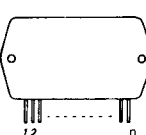
SEL2413E
SEL2913K-C



LC7060AN



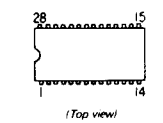
STK4152II



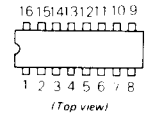
2SK381-E



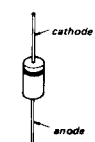
LC7522
LC7815H



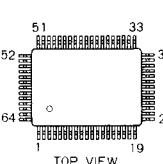
TC9176P



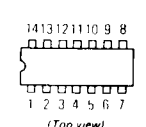
10E2
US1060M
UZL6M2



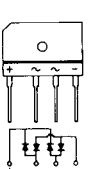
LC7560B



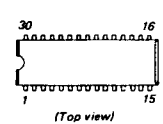
μPC4574C



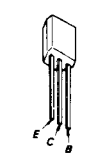
RBV-602-01



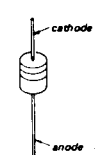
M50765-440SP



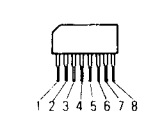
2SA1115
2SC634SP



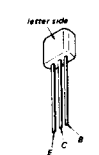
RD4.7ES-B



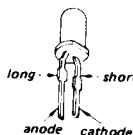
M5218L
μPC1237HA



2SA1175
BN1A4M



SEL2210S-C
SEL2910A



Semiconductor Location

Ref. No.	Location	Ref. No.	Location
D201	E-28	IC101	D-30
D202	E-28	IC102	E-29
D203	D-27	IC301	C-3
D204	D-27	IC302	C-10
D205	E-28	IC303	D-6
D206	E-28	IC401	D-21
D207	E-28	IC402	E-20
D301	C-5	IC403	C-16
D303	D-2	IC404	C-14
D304	D-4	IC405	B-19
D305	F-10	IC601	I-21
D306	E-9	IC602	H-19
D307	D-4	IC701	H-17
D308	C-6	IC901	D-27
D309	F-8	IC902	E-27
D310	F-10	IC903	H-27
D311	F-9	IC951	F-5
D313	F-7	IC952	F-5
D314	F-7		
D315	F-7	Q301	F-7
D316	E-7	Q302	F-7
D317	E-7	Q303	F-7
D318	B-8	Q304	E-7
D319	C-4	Q305	E-7
D320	B-5	Q306	C-7
D321	B-6	Q307	F-10
D322	B-7	Q308	D-8
D323	C-5	Q401	C-19
D324	B-3	Q402	C-20
D325	C-9	Q403	C-20
D501	B-18	Q404	C-19
D502	A-18	Q405	C-17
D503	A-17	Q406	C-18
D504	A-16	Q407	C-19
D505	A-15	Q408	B-20
D506	A-14	Q409	B-21
D507	A-14	Q410	A-20
D508	A-20	Q451	F-20
D509	D-17	Q452	F-20
D510	B-20	Q453	F-20
D511	C-15	Q454	F-19
D601	H-21	Q455	F-18
D701	I-17	Q456	F-18
D901	D-24	Q457	F-19
D902	D-25	Q458	B-20
D903	D-26	Q459	B-21
D904	D-26	Q601	J-20
D905	D-26	Q651	I-20
D906	E-26	Q701	I-17
D907	E-27	Q702	H-17
D908	E-27	Q751	I-17
D909	F-26	Q951	G-4
D910	F-27	Q952	F-4
D951	G-5	Q953	H-2, H-7
D952	G-5	Q954	G-4
D953	G-5		
D954	G-5		
D955	G-3		
D956	G-4		
D957	F-4		
D958	I-2, I-7		
D959	H-3		
D960	G-2		
D961	H-3		
D962	F-5		

2-2. PRINTED WIRING BOARDS

— Conductor Side —

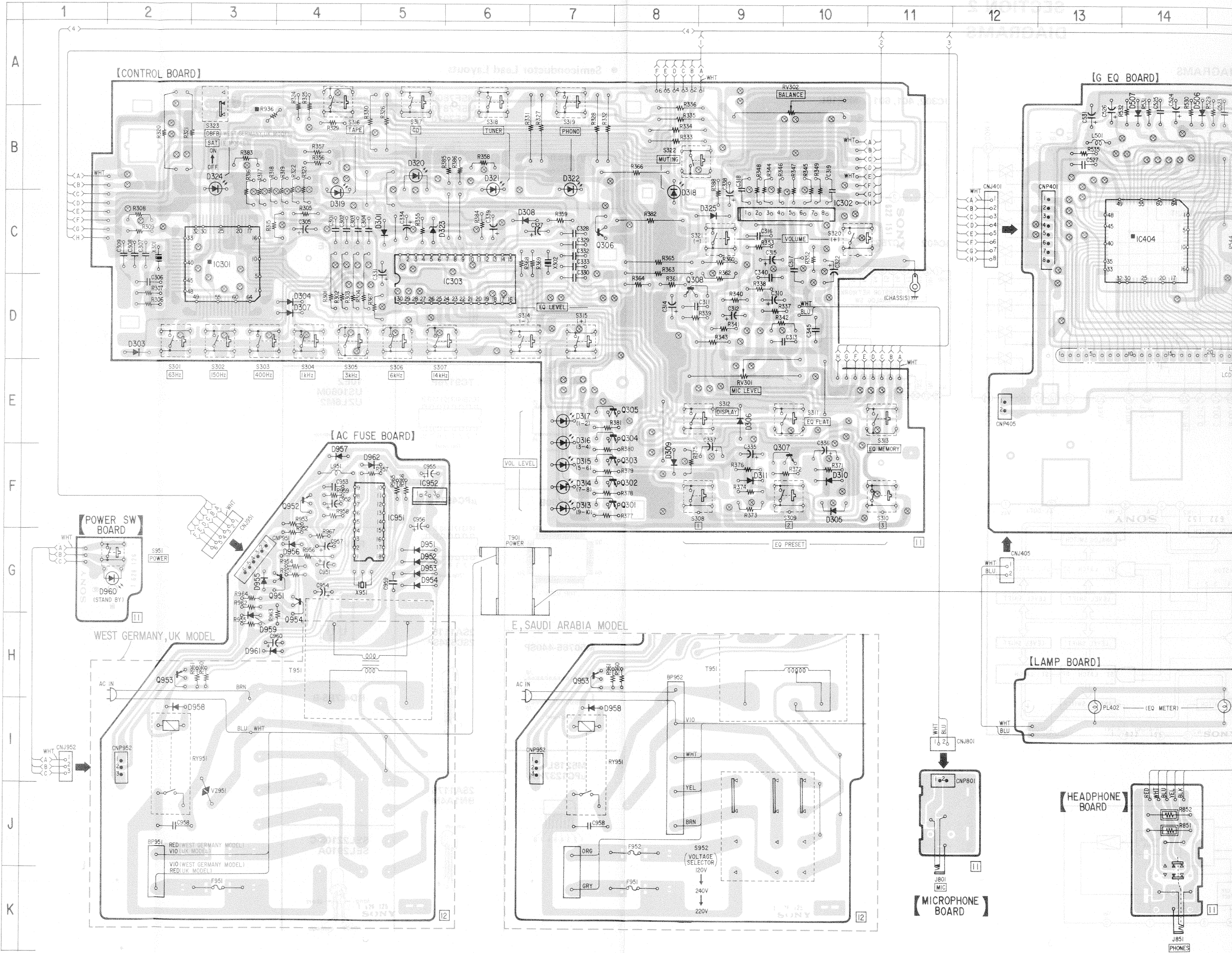
- See page 7 for Semiconductor Location.
- See page 6 for Semiconductor Lead Layouts.

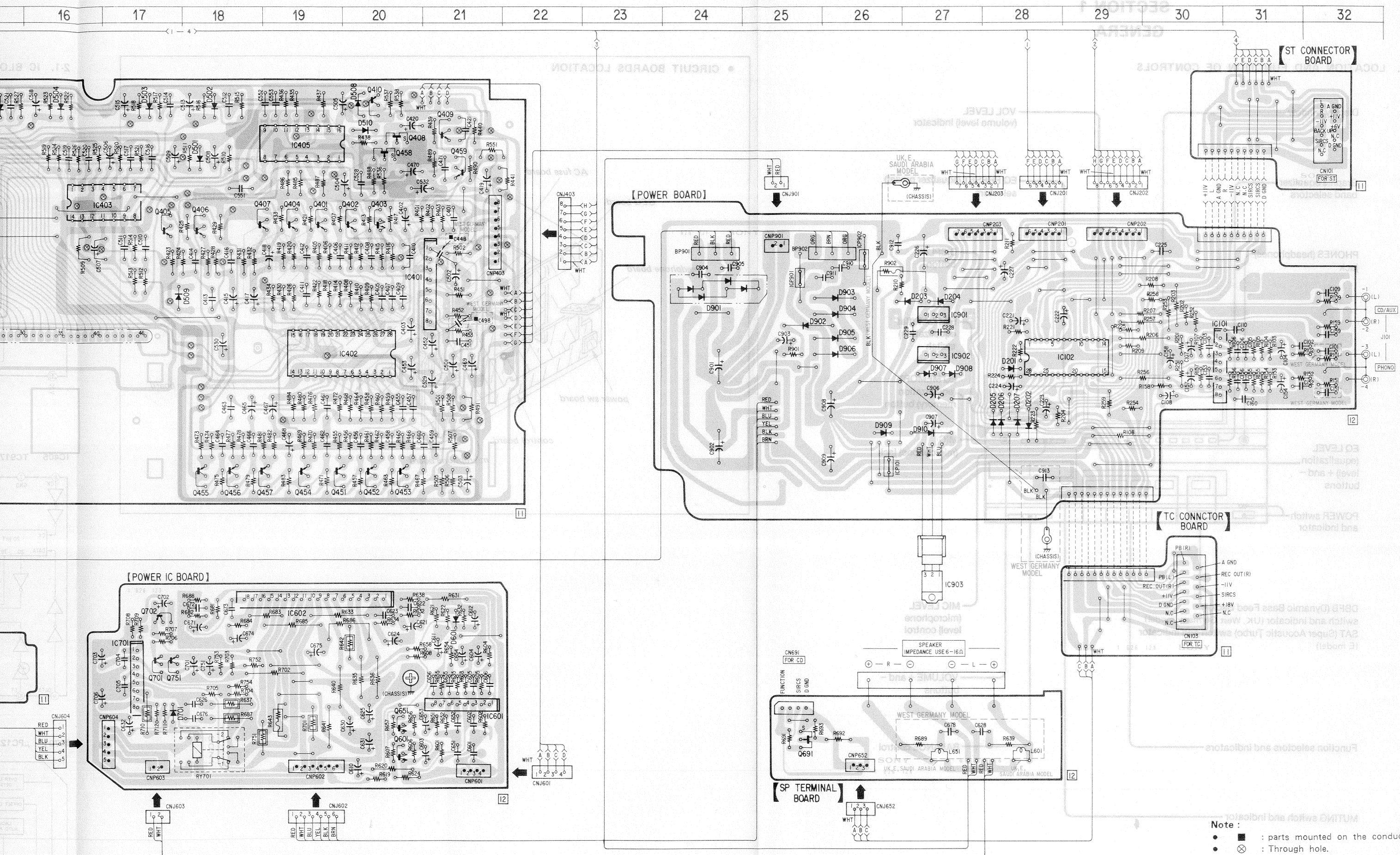
Note on Schematic Diagram:

- All capacitors are in μF unless otherwise noted.
- pF: μF 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and $\frac{1}{4}$ W or less unless otherwise specified.
- : nonflammable resistor.
- : fusible resistor.
- : B+ Line.
- : B- Line.
- AC voltage readings in the bias oscillator with a VTVM.
- Voltage and waveforms are dc with respect to ground under no-signal conditions.
- Voltage are taken with a VOM (50 k Ω /V).
- Voltage variations may be noted due to normal production tolerances.
- Signal path.
- : PHONO

Note: The components identified by mark Δ or dotted line with mark Δ are critical for safety. Replace only with part number specified.

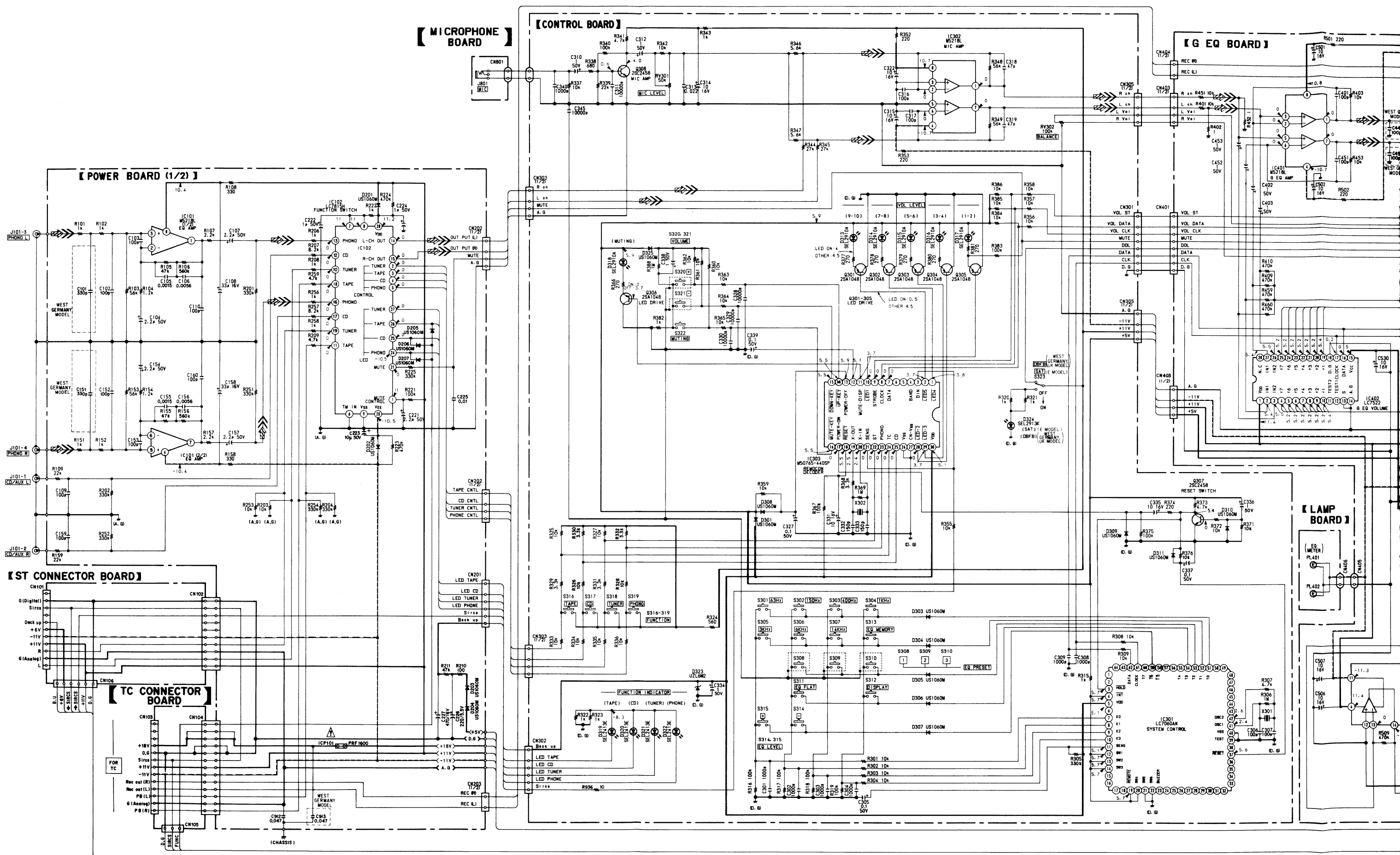
Ref. No.	Switch	Position
S301	63 Hz	OFF
S302	150 Hz	OFF
S303	400 Hz	OFF
S304	1 kHz	OFF
S305	3 kHz	OFF
S306	6 kHz	OFF
S307	14 kHz	OFF
S308	EQ PRESET/1	OFF
S309	EQ PRESET/2	OFF
S310	EQ PRESET/3	OFF
S311	EQ FLAT	OFF
S312	DISPLAY	OFF
S313	EQ MEMORY	OFF
S314	EQ LEVEL/—	OFF
S315	EQ LEVEL/+	OFF
S316	TAPE	OFF
S317	CD	OFF
S318	TUNER	OFF
S319	PHONO	OFF
S320	VOLUME/+	OFF
S321	VOLUME/—	OFF
S322	MUTING	OFF
S323	DBFB	OFF
S951	POWER	OFF
S952	VOLTAGE SELECTOR (E, Saudi Arabia model)	OFF

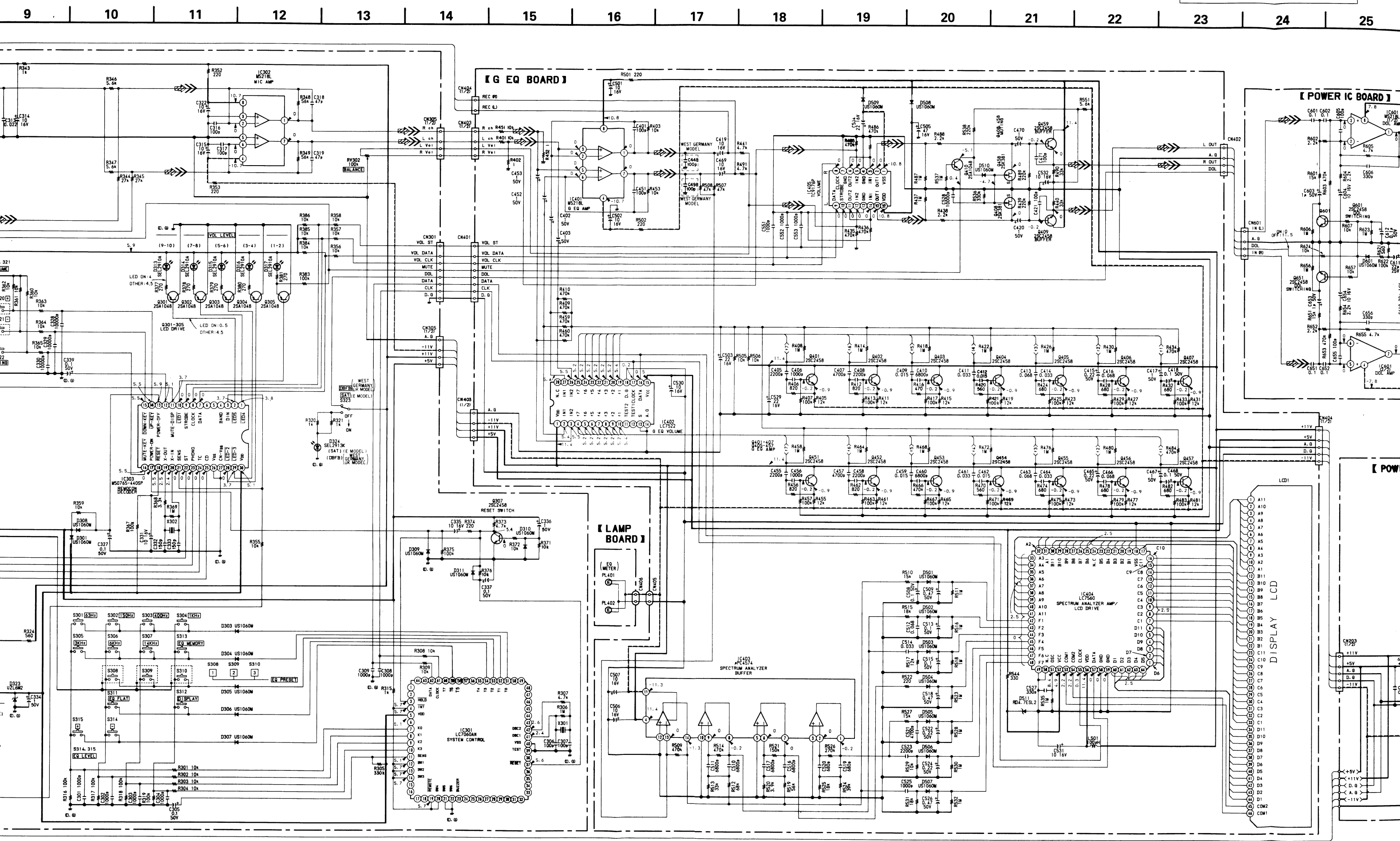


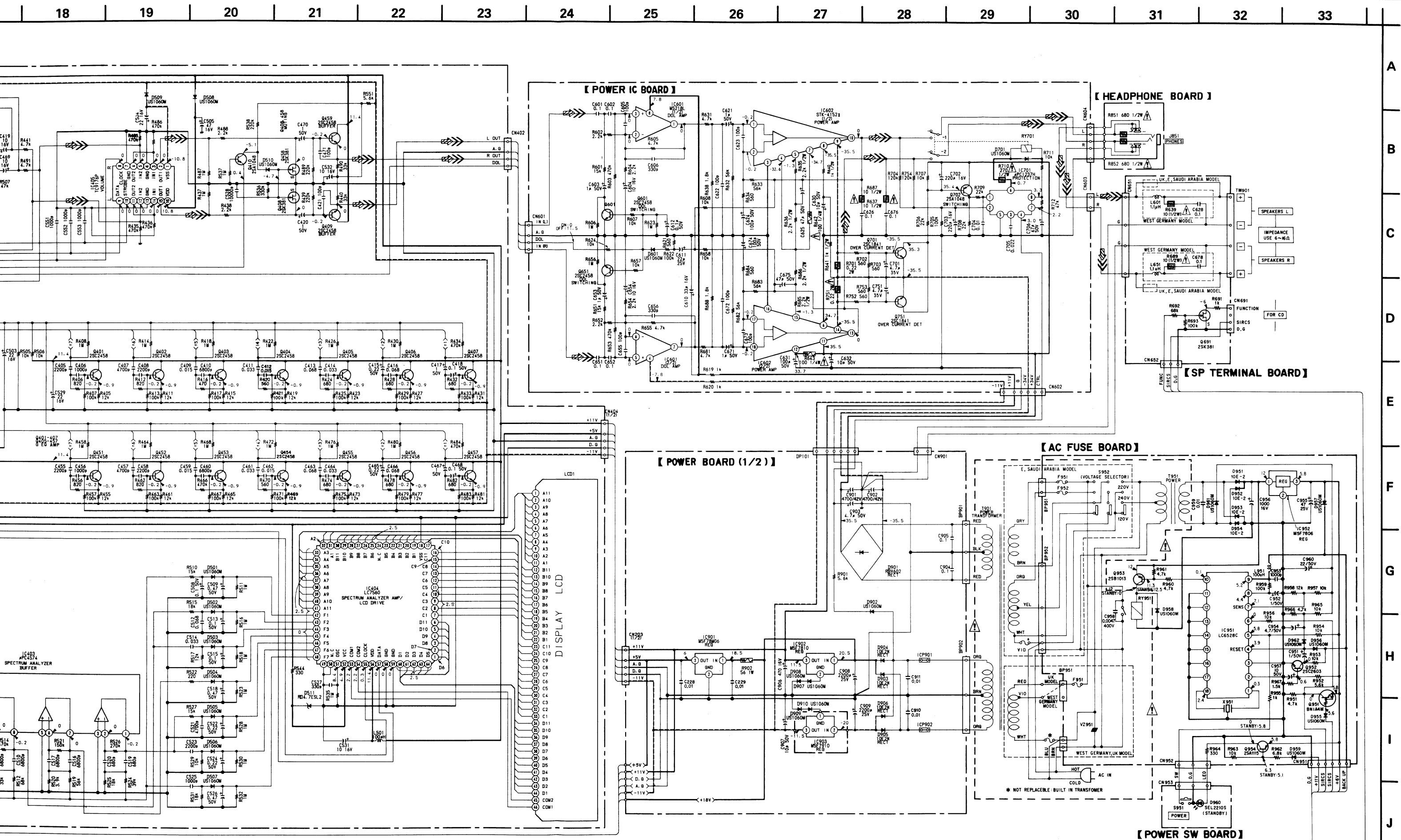


Note :

- ■ : parts mounted on the conductor side.
- ⊗ : Through hole.
- [Pattern] : Pattern on the side which is seen.
- [Pattern] : Pattern of the rear side.







SECTION 3 EXPLODED VIEW

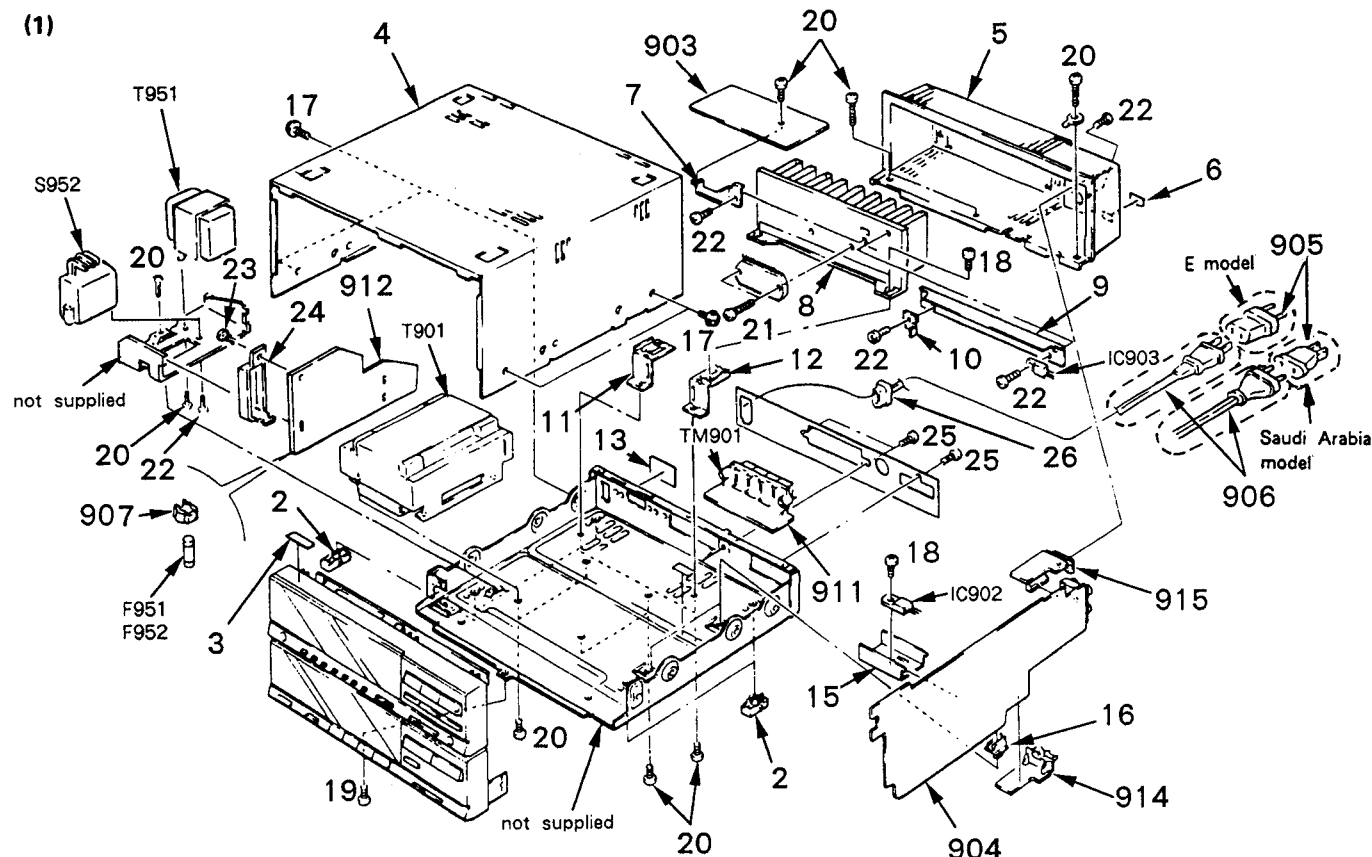
NOTE:

- The mechanical parts with no reference number in the exploded views are not supplied.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

- Due to standardization, parts with part number suffix -XX and -X may be different from the parts specified in the components used on the set.
- Color Indication of Appearance Parts Example:
(RED) ... KNOB, BALANCE (WHITE)

↑ Cabinet's Color ↑ Parts' Color

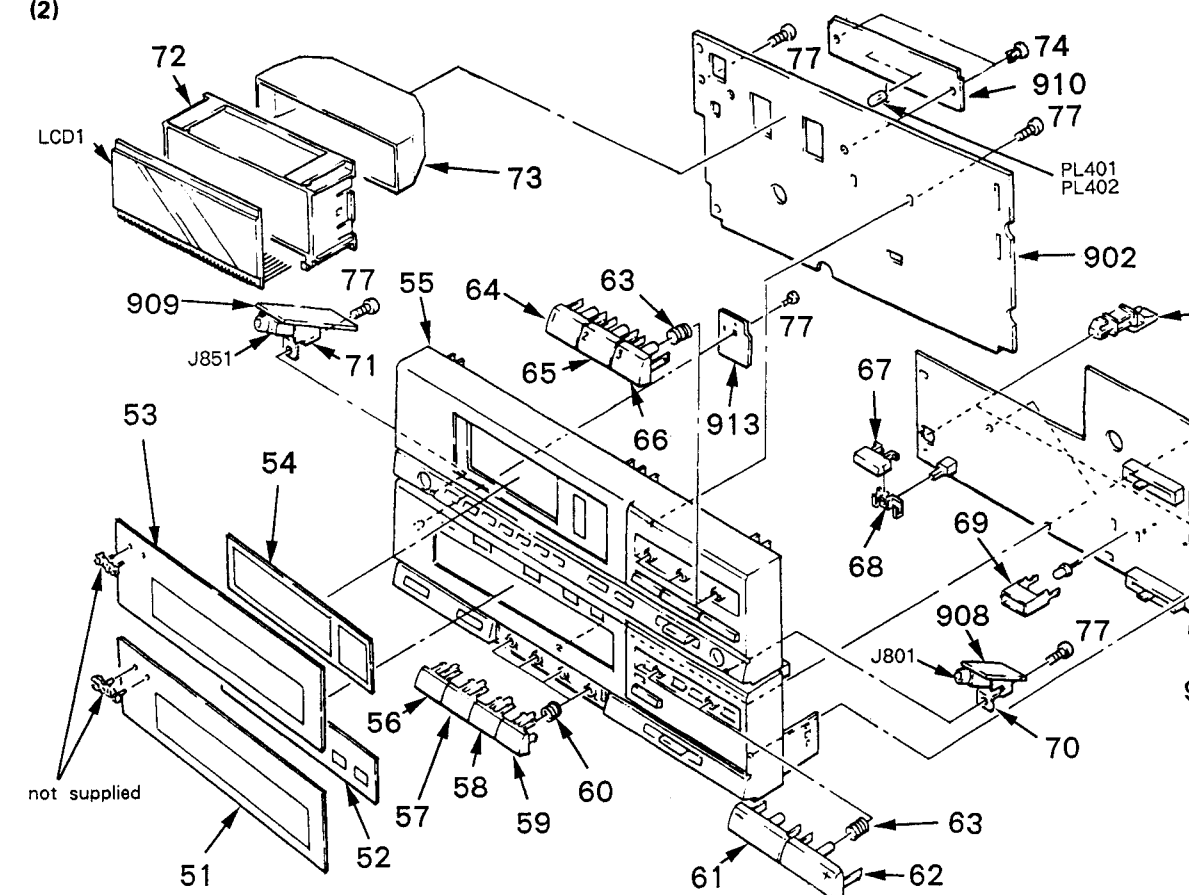
The components identified by mark or dotted line with mark are critical for safety. Replace only with part number specified.



No.	Part No.	Description	Remarks
2	X-4902-937-1	FOOT ASSY, RUBBER	
3	3-701-690-01	(UK)...LABEL (MADE IN JAPAN)	
4	4-920-118-01	CASE	
5	*4-920-116-11	PLATE, JACK	
6	*4-920-876-01	LABEL (PHONO)	
7	*4-910-064-01	BRACKET (H), PC BOARD	
8	*4-920-108-01	HEAT SINK	
9	*4-920-112-01	PLATE, BLOCK	
10	*4-920-171-01	BRACKET	
11	*4-914-393-01	BRACKET (LEFT), HEAT SINK	
12	*4-914-394-01	BRACKET (RIGHT), HEAT SINK	
13	*4-922-737-01	(E,Saudi Arabia)	
	LABEL, MODEL NUMBER (E2/E3)	
	*4-922-738-01	(UK).....LABEL, MODEL NUMBER (UK)	
	*4-922-739-01	(West Germany)...LABEL, MODEL NUMBER (AE4)	
14	*4-920-885-01	COVER, REAR	
15	*4-880-403-11	HEAT SINK	
16	*3-642-310-00	HOLDER, CIRCUIT BOARD	
17	3-704-366-01	SCREW (CASE) (M3X8)	
18	7-682-548-04	SCREW +BVTT 3X8 (S)	
19	7-685-870-01	SCREW +BVTT 3X5 (S)	
20	7-682-147-01	SCREW +BVTT 3X6 (S)	
21	7-685-650-79	SCREW +BVTP 3X16 TYPE2 IT-3	
22	7-685-647-79	SCREW +BVTP 3X10 TYPE2 N-S	
23	4-812-134-00	RIVET NYLON, 3.5	
24	4-925-571-01	COVER (INSULATING)	
25	7-685-646-79	SCREW +BVTP 3X8 TYPE2 N-S	

No.	Part No.	Description	Remarks
26	3-703-244-00	(UK,West Germany,Saudi Arabia)	
	BUSHING (2104), CORD	
	3-703-571-00	(E).....BUSHING (S) (4516), CORD	
903	*A-4388-729-A	MOUNTED PCB, POWER IC	
904	*A-4394-459-A	(West Germany).....MOUNTED PCB, POWER	
	*A-4394-460-A	(E,Saudi Arabia,UK)...MOUNTED PCB, POWER	
905	△1-506-409-11	(Saudi Arabia)...ADAPTOR, CONVERSION	
	△1-526-565-00	(E).....AC PLUG ADAPTOR	
906	△1-551-188-XX	(E).....CORD, POWER	
	△1-555-750-00	(Saudi Arabia,West Germany)..CORD, POWER	
	△1-556-035-00	(UK).....CORD, POWER	
907	1-533-183-11	HOLDER, FUSE	
911	*1-626-124-11	PC BOARD, SPEAKER TERMINAL	
912	*1-626-125-11	PC BOARD, AC FUSE	
914	*1-626-128-11	PC BOARD, TC CONNECTOR	
915	*1-626-129-11	PC BOARD, ST CONNECTOR	
F951	△1-532-285-00	FUSE, TIME-LAG	
F952	△1-532-285-00	(E,Saudi Arabia)...FUSE, TIME-LAG	
S952	△1-571-437-11	(E,Saudi Arabia)	
	SWITCH, POWER VOLTAGE CHANGE	
T901	△1-448-879-11	(E,Saudi Arabia)....TRANSFORMER, POWER	
T901	△1-448-880-11	(UK,West Germany)....TRANSFORMER, POWER	
T951	△1-449-194-11	TRANSFORMER, POWER	
TM901	1-536-705-00	TERMINAL BOARD (SP)	

(2)



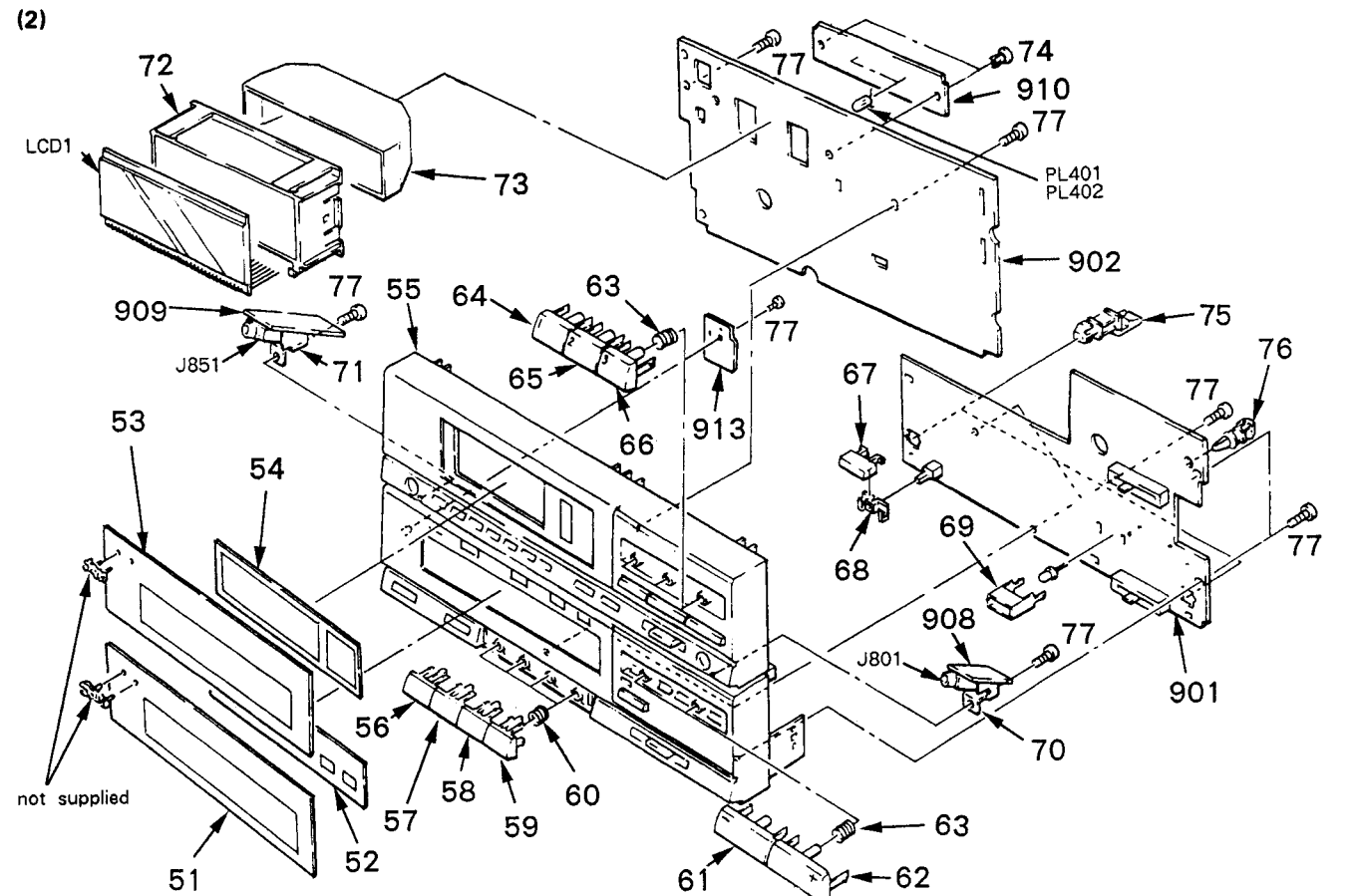
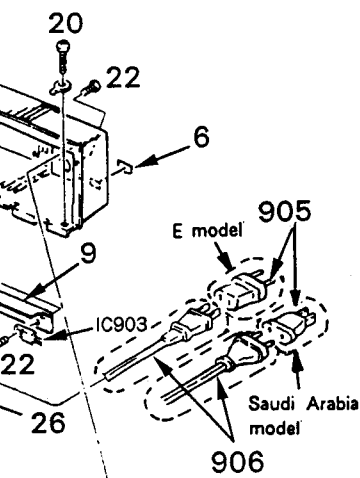
No.	Part No.	Description	Remarks
51	4-925-521-01	(UK,West Germany)..PLATE (TA), ORNAMENTAL	
	4-925-521-11	(E,Saudi Arabia)...PLATE (TA), ORNAMENTAL	
52	4-914-397-31	(E,Saudi Arabia)	
		...PLATE (FUNCTION), INDICATION	
	4-914-397-41	(UK,West Germany)	
		...PLATE (FUNCTION), INDICATION	
53	4-925-520-01	(UK,West Germany)..PLATE (GE), ORNAMENTAL	
	4-925-520-11	(E,Saudi Arabia)...PLATE (GE), ORNAMENTAL	
54	4-914-395-11	PLATE, INDICATION	
55	X-4919-665-1	(UK,West Germany)...PANEL ASSY	
	X-4919-666-1	(E,Saudi Arabia)...PANEL ASSY	
56	4-914-387-01	(UK,West Germany)..BUTTON (FUNCTION)(TAPE)	
	4-914-387-41	(E,Saudi Arabia)...BUTTON (FUNCTION)(TAPE)	
57	4-914-387-11	(UK,West Germany)...BUTTON (FUNCTION)(CD)	
	4-914-387-51	(E,Saudi Arabia)...BUTTON (FUNCTION)(CD)	
58	4-914-387-21	(UK,West Germany)...BUTTON (FUNCTION) (TUNER)	
		(FUNCTION) (TUNER)	
	4-914-387-61	(E,Saudi Arabia)...BUTTON (FUNCTION) (TUNER)	
59	4-914-387-31	(UK,West Germany)...BUTTON (FUNCTION) (PHONO)	
		(FUNCTION) (PHONO)	
	4-914-387-71	(E,Saudi Arabia)...BUTTON (FUNCTION) (PHONO)	
60	3-538-940-01	SPRING, COMPRESSION	
61	4-920-105-31	(UK,West Germany)...BUTTON (VOLUME)	
	4-920-105-51	(E,Saudi Arabia)...BUTTON (VOLUME)	
62	4-920-105-21	(UK,West Germany)...BUTTON (VOLUME)	
	4-920-105-41	(E,Saudi Arabia)...BUTTON (VOLUME)	
63	3-564-333-21	SPRING, COMPRESSION	

No.	Part No.	Description	Remarks
64	4-925-519-01	(UK,West Germany)...BU	
	4-925-519-31	(E,Saudi Arabia)...BU	
65	4-925-519-11	(UK,West Germany)...BU	
	4-925-519-41	(E,Saudi Arabia)...BU	
66	4-925-519-21	(UK,West Germany)...BU	
	4-925-519-51	(E,Saudi Arabia)...BU	
67	4-914-388-21	(E,Saudi Arabia)...BU	
	4-914-388-31	(UK,West Germany)...BU	
68	*4-914-390-01	JOINT, DOL	
69	*4-904-509-01	HOLDER (B), LED	
70	*4-914-391-01	BRACKET, MIC	
71	*4-914-392-01	BRACKET, HP	
72	*X-4910-090-1	ILLUMINATOR ASSY	
73	*4-920-101-01	HOUSE, LAMP	
74	4-812-134-00	RIVET NYLON, 3.5	
75	*4-839-304-00	HOLDER, CIRCUIT BOARD	
77	7-685-646-79	SCREW +BVTP 3X8 TYPE2	
901	*A-4375-370-A	MOUNTED PCB, CONTROL	
902	*A-4375-371-A	MOUNTED PCB, GEQ	
908	*1-622-153-11	PC BOARD, MICROPHONE	
909	*1-622-154-11	PC BOARD, HEADPHONE	
910	*1-622-155-11	PC BOARD, LAMP	
913	*1-626-126-11	PC BOARD, POWER SW	
J801	1-507-974-11	JACK	
J851	1-563-951-11	JACK	
LCD1	1-807-813-11	DISPLAY PANEL, LIQUID C	
PL401	1-518-527-51	LAMP, PILOT	
PL402	1-518-527-51	LAMP, PILOT	

SECTION 4

ELECTRICAL PARTS LIST

The components identified by mark Δ or dotted line with mark Δ are critical for safety. Replace only with part number specified.



No.	Part No.	Description	Remarks	No.	Part No.	Description	Remarks
51	4-925-521-01	(UK, West Germany)...PLATE (TA), ORNAMENTAL		64	4-925-519-01	(UK, West Germany)...BUTTON (GE PRESET)	
	4-925-521-11	(E, Saudi Arabia)...PLATE (TA), ORNAMENTAL			4-925-519-31	(E, Saudi Arabia)...BUTTON (GE PRESET)	
52	4-914-397-31	(E, Saudi Arabia)...PLATE (FUNCTION), INDICATION		65	4-925-519-11	(UK, West Germany)...BUTTON (GE PRESET)	
	4-914-397-41	(UK, West Germany)...PLATE (FUNCTION), INDICATION			4-925-519-41	(E, Saudi Arabia)...BUTTON (GE PRESET)	
53	4-925-520-01	(UK, West Germany)...PLATE (GE), ORNAMENTAL		66	4-925-519-21	(UK, West Germany)...BUTTON (GE PRESET)	
	4-925-520-11	(E, Saudi Arabia)...PLATE (GE), ORNAMENTAL			4-925-519-51	(E, Saudi Arabia)...BUTTON (GE PRESET)	
54	4-914-395-11	PLATE, INDICATION		67	4-914-388-21	(E, Saudi Arabia)...BUTTON (DOL) (SAT)	
55	X-4919-665-1	(UK, West Germany)...PANEL ASSY			4-914-388-31	(UK, West Germany)...BUTTON (DOL) (DBFB)	
	X-4919-666-1	(E, Saudi Arabia)...PANEL ASSY		68	*4-914-390-01	JOINT, DOL	
56	4-914-387-01	(UK, West Germany)...BUTTON (FUNCTION)(TAPE)		69	*4-904-509-01	HOLDER (B), LED	
	4-914-387-41	(E, Saudi Arabia)...BUTTON (FUNCTION)(TAPE)		70	*4-914-391-01	BRACKET, MIC	
57	4-914-387-11	(UK, West Germany)...BUTTON (FUNCTION)(CD)		71	*4-914-392-01	BRACKET, HP	
	4-914-387-51	(E, Saudi Arabia)...BUTTON (FUNCTION)(CD)		72	*X-4910-090-1	ILLUMINATOR ASSY	
58	4-914-387-21	(UK, West Germany)...BUTTON (FUNCTION) (TUNER)		73	*4-920-101-01	HOUSE, LAMP	
	4-914-387-61	(E, Saudi Arabia)...BUTTON (FUNCTION) (TUNER)		74	4-812-134-00	RIVET NYLON, 3.5	
59	4-914-387-31	(UK, West Germany)...BUTTON (FUNCTION) (PHONO)		75	*4-839-304-00	HOLDER, CIRCUIT BOARD	
	4-914-387-71	(E, Saudi Arabia)...BUTTON (FUNCTION) (PHONO)		77	7-685-646-79	SCREW +BVTP 3X8 TYPE2 N-S	
60	3-538-940-01	SPRING, COMPRESSION		901	*A-4375-370-A	MOUNTED PCB, CONTROL	
61	4-920-105-31	(UK, West Germany)...BUTTON (VOLUME)		902	*A-4375-371-A	MOUNTED PCB, GEQ	
	4-920-105-51	(E, Saudi Arabia)...BUTTON (VOLUME)		908	*1-622-153-11	PC BOARD, MICROPHONE	
62	4-920-105-21	(UK, West Germany)...BUTTON (VOLUME)		909	*1-622-154-11	PC BOARD, HEADPHONE	
	4-920-105-41	(E, Saudi Arabia)...BUTTON (VOLUME)		910	*1-622-155-11	PC BOARD, LAMP	
63	3-564-333-21	SPRING, COMPRESSION		912	*1-626-125-11	PC BOARD, AC FUSE	
				913	*1-626-126-11	PC BOARD, POWER SW	
				914	*1-626-128-11	PC BOARD, TC CONNECTOR	
				915	*1-626-129-11	PC BOARD, ST CONNECTOR	
				BP901	*1-508-830-12	H TYPE BASE POST	
				BP902	*1-508-830-12	H TYPE BASE POST	
				BP951	*1-535-139-00	BASE POST 22MM (10MM PITCH) 2P	
				BP952	*1-535-142-00	(E, Saudi Arabia)...BASE POST 22MM (10MM PITCH) 5P	
				C101	1-162-288-31	(West Germany)...CERAMIC 330PF 10% 50V	
				C102	1-162-282-31	CERAMIC 100PF 10% 50V	
				C103	1-162-282-31	CERAMIC 100PF 10% 50V	
				C104	1-124-925-11	ELECT 2.2MF 20% 50V	
				C105	1-130-473-00	MYLAR 0.0015MF 5% 50V	
				C106	1-130-480-00	MYLAR 0.0056MF 5% 50V	
				C107	1-124-925-11	ELECT 2.2MF 20% 50V	
				C108	1-124-963-11	ELECT 33MF 20% 16V	
				C109	1-162-282-31	CERAMIC 100PF 10% 50V	
				C110	1-162-282-31	CERAMIC 100PF 10% 50V	
				C151	1-162-288-31	(West Germany)...CERAMIC 330PF 10% 50V	
				C152	1-162-282-31	CERAMIC 100PF 10% 50V	
				C153	1-162-282-31	CERAMIC 100PF 10% 50V	
				C154	1-124-925-11	ELECT 2.2MF 20% 50V	
				C155	1-130-473-00	MYLAR 0.0015MF 5% 50V	
				C156	1-130-480-00	MYLAR 0.0056MF 5% 50V	
				C157	1-124-925-11	ELECT 2.2MF 20% 50V	
				C318	1-162-215-31	CERAMIC 47PF	
				C319	1-162-215-31	CERAMIC 47PF	
				C322	1-124-462-00	ELECT 10MF	
				C327	1-124-463-00	ELECT 0.1MF	
				C328	1-161-379-00	CERAMIC 0.01MF	
				C329	1-161-379-00	CERAMIC 0.01MF	
				C330	1-161-379-00	CERAMIC 0.01MF	
				C331	1-124-462-00	ELECT 10MF	
				C332	1-162-284-31	CERAMIC 150PF	
				C333	1-162-284-31	CERAMIC 150PF	
				C334	1-123-611-00	ELECT 1MF	
				C335	1-124-462-00	ELECT 10MF	
				C336	1-123-611-00	ELECT 1MF	
				C337	1-124-463-00	ELECT 0.1MF	
				C338	1-123-611-00	ELECT 1MF	
				C339	1-124-463-00	ELECT 0.1MF	

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- Items marked "★" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- If there are two or more same circuits in a set such as a stereophonic machine, only typical circuit parts may be indicated and capacitors and resistors in other same circuits may be omitted.

CAPACITORS:

MF: μ F, PF: μ PF.

RESISTORS

- All resistors are in ohms.
- F: nonflammable

COILS

MMH: mH, UH: μ H

SEMICONDUCTORS

In each case, U: μ , for example:UA...: μ A..., UPA...: μ PA..., UPC...: μ PC, UPD...: μ PD...

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SECTION 4

ELECTRICAL PARTS LIST

NOTE:

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CAPACITORS:

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RESISTORS

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SEMICONDUCTORS

In each case, U: μ , for example:
 UA...: μ A..., UPA...: μ PA...,
 UPC...: μ PC, UPD...: μ PD...

The components identified by mark Δ or dotted line with mark Δ are critical for safety. Replace only with part number specified.

Ref.No.	Part No.	Description
901	*A-4375-370-A	MOUNTED PCB, CONTROL
902	*A-4375-371-A	MOUNTED PCB, GEQ
903	*A-4388-729-A	MOUNTED PCB, POWER IC
904	*A-4394-459-A	(West Germany)....MOUNTED PCB, POWER
	*A-4394-460-A	(E,Saudi Arabia,UK) ...MOUNTED PCB, POWER
905	Δ 1-506-409-11	(Saudi Arabia)....ADAPTOR, CONVERSION
	Δ 1-526-565-00	(E).....AC PLUG ADAPTOR
906	Δ 1-551-188-XX	(E).....CORD, POWER
	Δ 1-555-750-00	(Saudi Arabia,West Germany) ...CORD, POWER
	Δ 1-556-035-00	(UK).....CORD, POWER
907	1-533-183-11	HOLDER, FUSE
908	*1-622-153-11	PC BOARD, MICROPHONE
909	*1-622-154-11	PC BOARD, HEADPHONE
910	*1-622-155-11	PC BOARD, LAMP
911	*1-626-124-11	PC BOARD, SPEAKER TERMINAL
912	*1-626-125-11	PC BOARD, AC FUSE
913	*1-626-126-11	PC BOARD, POWER SW
914	*1-626-128-11	PC BOARD, TC CONNECTOR
915	*1-626-129-11	PC BOARD, ST CONNECTOR
BP901	*1-508-830-12	H TYPE BASE POST
BP902	*1-508-830-12	H TYPE BASE POST
BP951	*1-535-139-00	BASE POST 22MM (10MM PITCH) 2P
BP952	*1-535-142-00	(E,Saudi Arabia) ...BASE POST 22MM (10MM PITCH) 5P
C101	1-162-288-31	(West Germany) ...CERAMIC 330PF 10% 50V
C102	1-162-282-31	CERAMIC 100PF 10% 50V
C103	1-162-282-31	CERAMIC 100PF 10% 50V
C104	1-124-925-11	ELECT 2.2MF 20% 50V
C105	1-130-473-00	MYLAR 0.0015MF 5% 50V
C106	1-130-480-00	MYLAR 0.0056MF 5% 50V
C107	1-124-925-11	ELECT 2.2MF 20% 50V
C108	1-124-963-11	ELECT 33MF 20% 16V
C109	1-162-282-31	CERAMIC 100PF 10% 50V
C110	1-162-282-31	CERAMIC 100PF 10% 50V
C151	1-162-288-31	(West Germany) ...CERAMIC 330PF 10% 50V
C152	1-162-282-31	CERAMIC 100PF 10% 50V
C153	1-162-282-31	CERAMIC 100PF 10% 50V
C154	1-124-925-11	ELECT 2.2MF 20% 50V
C155	1-130-473-00	MYLAR 0.0015MF 5% 50V
C156	1-130-480-00	MYLAR 0.0056MF 5% 50V
C157	1-124-925-11	ELECT 2.2MF 20% 50V

Remarks

(GE PRESET)
(GE PRESET)(GE PRESET)
(GE PRESET)(GE PRESET)
(GE PRESET)(DOL) (SAT)
(DOL) (DBFB)

Ref.No.	Part No.	Description
C158	1-124-963-11	ELECT 33MF 20% 16V
C159	1-162-282-31	CERAMIC 100PF 10% 50V
C160	1-162-282-31	CERAMIC 100PF 10% 50V
C221	1-124-925-11	ELECT 2.2MF 20% 50V
C222	1-123-611-00	ELECT 1MF 20% 50V
C223	1-123-875-11	ELECT 10MF 20% 50V
C224	1-123-611-00	ELECT 1MF 20% 50V
C225	1-161-379-00	CERAMIC 0.01MF 30% 16V
C226	1-125-486-11	DOUBLE LAYERS 220MF 5.5V
C227	1-126-103-11	ELECT 470MF 20% 16V
C228	1-136-153-00	FILM 0.01MF 5% 50V
C229	1-136-153-00	FILM 0.01MF 5% 50V
C301	1-162-294-31	CERAMIC 0.001MF 10% 50V
C302	1-162-294-31	CERAMIC 0.001MF 10% 50V
C303	1-162-294-31	CERAMIC 0.001MF 10% 50V
C304	1-162-294-31	CERAMIC 0.001MF 10% 50V
C305	1-124-463-00	ELECT 0.1MF 20% 50V
C306	1-162-282-31	CERAMIC 100PF 10% 50V
C307	1-162-282-31	CERAMIC 100PF 10% 50V
C308	1-162-294-31	CERAMIC 0.001MF 10% 50V
C309	1-162-294-31	CERAMIC 0.001MF 10% 50V
C310	1-123-611-00	ELECT 1MF 20% 50V
C311	1-161-379-00	CERAMIC 0.01MF 30% 16V
C312	1-123-611-00	ELECT 1MF 20% 50V
C313	1-161-494-00	CERAMIC 0.022MF 25V
C314	1-124-462-00	ELECT 10MF 20% 16V
C315	1-124-462-00	ELECT 10MF 20% 16V
C316	1-162-282-31	CERAMIC 100PF 10% 50V
C317	1-162-282-31	CERAMIC 100PF 10% 50V
C318	1-162-215-31	CERAMIC 47PF 5% 50V
C319	1-162-215-31	CERAMIC 47PF 5% 50V
C322	1-124-462-00	ELECT 10MF 20% 16V
C327	1-124-463-00	ELECT 0.1MF 20% 50V
C328	1-161-379-00	CERAMIC 0.01MF 30% 16V
C329	1-161-379-00	CERAMIC 0.01MF 30% 16V
C330	1-161-379-00	CERAMIC 0.01MF 30% 16V
C331	1-124-462-00	ELECT 10MF 20% 16V
C332	1-162-284-31	CERAMIC 150PF 10% 50V
C333	1-162-284-31	CERAMIC 150PF 10% 50V
C334	1-123-611-00	ELECT 1MF 20% 50V
C335	1-124-462-00	ELECT 10MF 20% 16V
C336	1-123-611-00	ELECT 1MF 20% 50V
C337	1-124-463-00	ELECT 0.1MF 20% 50V
C338	1-123-611-00	ELECT 1MF 20% 50V
C339	1-124-463-00	ELECT 0.1MF 20% 50V

Ref.No.	Part No.	Description
C340	1-162-294-31	CERAMIC 0.001MF 10% 50V
C345	1-161-379-00	CERAMIC 0.01MF 30% 16V
C401	1-162-282-31	CERAMIC 100PF 10% 50V
C402	1-123-611-00	ELECT 1MF 20% 50V
C403	1-123-611-00	ELECT 1MF 20% 50V
C405	1-161-375-00	CERAMIC 0.0022MF 30% 16V
C406	1-162-294-31	CERAMIC 0.001MF 10% 50V
C407	1-161-377-00	CERAMIC 0.0047MF 30% 16V
C408	1-161-375-00	CERAMIC 0.0022MF 30% 16V
C409	1-136-155-00	FILM 0.015MF 5% 50V
C410	1-161-329-00	CERAMIC 0.0068MF 30% 16V
C411	1-136-159-00	FILM 0.033MF 5% 50V
C412	1-136-155-00	FILM 0.015MF 5% 50V
C413	1-136-163-00	FILM 0.068MF 5% 50V
C414	1-136-159-00	FILM 0.033MF 5% 50V
C415	1-124-464-11	ELECT 0.22MF 20% 50V
C416	1-136-163-00	FILM 0.068MF 5% 50V
C417	1-123-611-00	ELECT 1MF 20% 50V
C418	1-124-463-00	ELECT 0.1MF 20% 50V
C419	1-124-462-00	ELECT 10MF 20% 16V
C420	1-123-611-00	ELECT 1MF 20% 50V
C421	1-162-282-31	CERAMIC 100PF 10% 50V
C448	1-162-282-31	(West Germany) ...CERAMIC 100PF 10% 50V
C451	1-162-282-31	CERAMIC 100PF 10% 50V
C452	1-123-611-00	ELECT 1MF 20% 50V
C453	1-123-611-00	ELECT 1MF 20% 50V
C455	1-161-375-00	CERAMIC 0.0022MF 30% 16V
C456	1-162-294-31	CERAMIC 0.001MF 10% 50V
C457	1-161-377-00	CERAMIC 0.0047MF 30% 16V
C458	1-161-375-00	CERAMIC 0.0022MF 30% 16V
C459	1-136-155-00	FILM 0.015MF 5% 50V
C460	1-161-329-00	CERAMIC 0.0068MF 30% 16V
C461	1-136-159-00	FILM 0.033MF 5% 50V
C462	1-136-155-00	FILM 0.015MF 5% 50V
C463	1-136-163-00	FILM 0.068MF 5% 50V
C464	1-136-159-00	FILM 0.033MF 5% 50V
C465	1-124-464-11	ELECT 0.22MF 20% 50V
C466	1-136-163-00	FILM 0.068MF 5% 50V
C467	1-123-611-00	ELECT 1MF 20% 50V
C468	1-124-463-00	ELECT 0.1MF 20% 50V
C469	1-124-462-00	ELECT 10MF 20% 16V
C470	1-123-611-00	ELECT 1MF 20% 50V
C471	1-162-282-31	CERAMIC 100PF 10% 50V
C498	1-162-282-31	(West Germany) ...CERAMIC 100PF 10% 50V
C501	1-124-462-00	ELECT 10MF 20% 16V
C502	1-124-462-00	ELECT 10MF 20% 16V
C503	1-124-234-00	ELECT 22MF 20% 16V
C504	1-124-234-00	ELECT 22MF 20% 16V
C505	1-124-236-00	ELECT 47MF 20% 16V
C506	1-124-462-00	ELECT 10MF 20% 16V
C507	1-124-462-00	ELECT 10MF 20% 16V
C508	1-124-463-00	ELECT 0.1MF 20% 50V
C509	1-124-465-00	ELECT 0.47MF 20% 50V
C510	1-161-329-00	CERAMIC 0.0068MF 30% 16V
C511	1-161-329-00	CERAMIC 0.0068MF 30% 16V
C512	1-136-163-00	FILM 0.068MF 5% 50V

Ref.No.	Part No.	Description
C513	1-124-463-00	ELECT 0.1MF 20% 50V
C514	1-136-159-00	FILM 0.033MF 5% 50V
C515	1-124-463-00	ELECT 0.1MF 20% 50V
C516	1-161-329-00	CERAMIC 0.0068MF 30% 16V
C517	1-161-329-00	CERAMIC 0.0068MF 30% 16V
C518	1-124-465-00	ELECT 0.47MF 20% 50V
C519	1-162-292-31	CERAMIC 680PF 10% 50V
C520	1-162-292-31	CERAMIC 680PF 10% 50V
C521	1-161-377-00	CERAMIC 0.0047MF 30% 16V
C522	1-124-464-11	ELECT 0.22MF 20% 50V
C523	1-161-375-00	CERAMIC 0.0022MF 30% 16V
C524	1-124-464-11	ELECT 0.22MF 20% 50V
C525	1-162-294-31	CERAMIC 0.001MF 10% 50V
C526	1-124-465-00	ELECT 0.47MF 20% 50V
C527	1-162-288-31	CERAMIC 330PF 10% 50V
C528	1-161-379-00	CERAMIC 0.01MF 30% 16V
C529	1-124-234-00	ELECT 22MF 20% 16V
C530	1-124-462-00	ELECT 10MF 20% 16V
C531	1-124-462-00	ELECT 10MF 20% 16V
C532	1-124-462-00	ELECT 10MF 20% 16V
C551	1-162-294-31	CERAMIC 0.001MF 10% 50V
C552	1-162-294-31	CERAMIC 0.001MF 10% 50V
C553	1-162-294-31	CERAMIC 0.001MF 10% 50V
C601	1-136-165-00	FILM 0.1MF 5% 50V
C602	1-136-165-00	FILM 0.1MF 5% 50V
C603	1-123-611-00	ELECT 1MF 20% 50V
C604	1-124-462-00	ELECT 10MF 20% 16V
C605	1-162-282-31	CERAMIC 100PF 10% 50V
C606	1-162-288-31	CERAMIC 330PF 10% 50V
C610	1-124-963-11	ELECT 33MF 20% 16V
C611	1-124-598-11	ELECT 22MF 20% 25V
C612	1-124-463-00	ELECT 0.1MF 20% 50V
C621	1-123-611-00	ELECT 1MF 20% 50V
C622	1-162-282-31	CERAMIC 100PF 10% 50V
C623	1-162-282-31	CERAMIC 100PF 10% 50V
C624	1-124-122-11	ELECT 100MF 20% 50V
C625	1-124-910-11	ELECT 47MF 20% 50V
C626	1-136-165-00	FILM 0.1MF 5% 50V
C628	1-136-165-00	(West Germany)...FILM 0.1MF 5% 50V
C630	1-123-875-11	ELECT 10MF 20% 50V
C631	1-124-122-11	ELECT 100MF 20% 50V
C632	1-123-875-11	ELECT 10MF 20% 50V
C651	1-136-165-00	FILM 0.1MF 5% 50V
C652	1-136-165-00	FILM 0.1MF 5% 50V
C653	1-123-611-00	ELECT 1MF 20% 50V
C654	1-124-462-00	ELECT 10MF 20% 16V
C655	1-162-282-31	CERAMIC 100PF 10% 50V
C656	1-162-288-31	CERAMIC 330PF 10% 50V
C671	1-123-611-00	ELECT 1MF 20% 50V
C672	1-162-282-31	CERAMIC 100PF 10% 50V
C673	1-162-282-31	CERAMIC 100PF 10% 50V
C674	1-124-122-11	ELECT 100MF 20% 50V
C675	1-124-910-11	ELECT 47MF 20% 50V
C676	1-136-165-00	FILM 0.1MF 5% 50V
C678	1-136-165-00	(West Germany)...FILM 0.1MF 5% 50V
C701	1-124-245-00	ELECT 4.7MF 20% 35V
C702	1-124-120-11	ELECT 220MF 20% 16V



Ref.No.	Part No.	Description			
C703	1-124-120-11	ELECT	220MF	20%	16V
C704	1-161-379-00	CERAMIC	0.01MF	30%	16V
C705	1-161-494-00	CERAMIC	0.022MF		25V
C706	1-124-910-11	ELECT	47MF	20%	50V
C751	1-124-245-00	ELECT	4.7MF	20%	35V
C901	1-126-224-11	ELECT	4700MF	20%	42V
C902	1-126-224-11	ELECT	4700MF	20%	42V
C903	1-124-927-11	ELECT	4.7MF	20%	50V
C904	1-136-165-00	FILM	0.1MF	5%	50V
C905	1-136-165-00	FILM	0.1MF	5%	50V
C906	1-126-103-11	ELECT	470MF	20%	16V
C907	1-123-875-11	ELECT	10MF	20%	50V
C908	1-124-563-11	ELECT	2200MF	20%	25V
C909	1-124-563-11	ELECT	2200MF	20%	25V
C910	1-136-153-00	FILM	0.01MF	5%	50V
C911	1-136-153-00	FILM	0.01MF	5%	50V
C912	1-101-006-00	CERAMIC	0.047MF		50V
C913	1-101-006-00	(West Germany) ...CERAMIC	0.047MF		50V
C951	1-124-499-11	ELECT	1MF	20%	50V
C952	1-124-499-11	ELECT	1MF	20%	50V
C953	1-162-294-31	CERAMIC	0.001MF	10%	50V
C954	1-124-927-11	ELECT	4.7MF	20%	50V
C955	1-124-910-11	ELECT	47MF	20%	50V
C956	1-124-360-00	ELECT	1000MF	20%	16V
C957	1-123-875-11	ELECT	10MF	20%	50V
C958	△ 1-162-578-00	CERAMIC	0.0047MF	20%	400V
C959	1-136-153-00	FILM	0.01MF	5%	50V
C960	1-124-908-11	ELECT	22MF	20%	50V
CN101	*1-566-858-11	SOCKET, CONNECTOR 11P			
CN102	1-564-610-21	CONNECTOR, BOARD TO BOARD			
CN103	*1-565-291-11	SOCKET, CONNECTOR 13P			
CN104	*1-506-979-21	CONNECTOR, BOARD TO BOARD 13P			
CN201	*1-564-499-11	PIN, CONNECTOR 6P			
CN202	*1-564-501-11	PIN, CONNECTOR 8P			
CN203	*1-564-500-11	PIN, CONNECTOR 7P			
CN401	*1-564-501-11	PIN, CONNECTOR 8P			
CN403	*1-564-501-11	PIN, CONNECTOR 8P			
CN405	*1-564-495-11	PIN, CONNECTOR 2P			
CN601	*1-564-497-11	PIN, CONNECTOR 4P			
CN602	*1-564-521-11	PLUG, CONNECTOR 6P			
CN603	*1-564-517-11	PLUG, CONNECTOR 2P			
CN604	*1-564-520-11	PLUG, CONNECTOR 5P			
CN651	*1-562-249-00	SOCKET, CONNECTOR 4P			
CN652	*1-564-337-00	PIN, CONNECTOR 3P			
CN691	1-564-980-11	PIN, CONNECTOR 4P			
CN801	*1-564-495-11	PIN, CONNECTOR 2P			
CN901	*1-564-517-21	PLUG, CONNECTOR 2P			
CN951	*1-564-340-00	PIN, CONNECTOR 6P			
CN952	*1-564-337-00	PIN, CONNECTOR 3P			
D201	8-719-000-26	DIODE US1060M			
D202	8-719-000-26	DIODE US1060M			
D203	8-719-000-26	DIODE US1060M			
D204	8-719-000-26	DIODE US1060M			
D205	8-719-000-26	DIODE US1060M			
D206	8-719-000-26	DIODE US1060M			
D207	8-719-000-26	DIODE US1060M			
D301	8-719-000-26	DIODE US1060M			
D303	8-719-000-26	DIODE US1060M			

Ref.No.	Part No.	Description
D304	8-719-000-26	DIODE US1060M
D305	8-719-000-26	DIODE US1060M
D306	8-719-000-26	DIODE US1060M
D307	8-719-000-26	DIODE US1060M
D308	8-719-000-26	DIODE US1060M
D309	8-719-000-26	DIODE US1060M
D310	8-719-000-26	DIODE US1060M
D311	8-719-000-26	DIODE US1060M
D313	8-719-301-60	DIODE SEL2910A-C
D314	8-719-301-60	DIODE SEL2910A-C
D315	8-719-301-60	DIODE SEL2910A-C
D316	8-719-301-60	DIODE SEL2910A-C
D317	8-719-301-60	DIODE SEL2910A-C
D318	8-719-301-60	DIODE SEL2910A-C
D319	8-719-301-48	DIODE SEL2413E-D
D320	8-719-301-48	DIODE SEL2413E-D
D321	8-719-301-48	DIODE SEL2413E-D
D322	8-719-301-48	DIODE SEL2413E-D
D323	8-719-000-63	DIODE UZL6M3
D324	8-719-302-87	DIODE SEL2913K-C
D325	8-719-000-26	DIODE US1060M
D501	8-719-000-26	DIODE US1060M
D502	8-719-000-26	DIODE US1060M
D503	8-719-000-26	DIODE US1060M
D504	8-719-000-26	DIODE US1060M
D505	8-719-000-26	DIODE US1060M
D506	8-719-000-26	DIODE US1060M
D507	8-719-000-26	DIODE US1060M
D508	8-719-000-26	DIODE US1060M
D509	8-719-000-26	DIODE US1060M
D510	8-719-000-26	DIODE US1060M
D511	8-719-109-79	DIODE RD4.7ES-B
D601	8-719-000-26	DIODE US1060M
D651	8-719-000-26	DIODE US1060M
D701	8-719-000-26	DIODE US1060M
D901	8-719-302-38	DIODE RBV-602-01
D902	8-719-000-26	DIODE US1060M
D903	8-719-200-02	DIODE 10E2
D904	8-719-200-02	DIODE 10E2
D905	8-719-200-02	DIODE 10E2
D906	8-719-200-02	DIODE 10E2
D907	8-719-000-26	DIODE US1060M
D908	8-719-000-26	DIODE US1060M
D909	8-719-000-26	DIODE US1060M
D910	8-719-000-26	DIODE US1060M
D951	8-719-200-02	DIODE 10E2
D952	8-719-200-02	DIODE 10E2
D953	8-719-200-02	DIODE 10E2
D954	8-719-200-02	DIODE 10E2
D955	8-719-000-26	DIODE US1060M
D956	8-719-000-26	DIODE US1060M
D957	8-719-000-26	DIODE US1060M
D958	8-719-000-26	DIODE US1060M
D959	8-719-000-26	DIODE US1060M
D960	8-719-301-38	DIODE SEL2210S-C
D961	8-719-000-26	DIODE US1060M
D962	8-719-000-26	DIODE US1060M

Note: The components identified by mark **△** or dotted line with mark **△** are critical for safety.
Replace only with part number specified.

Ref.No.	Part No.	Description
DP101	*1-562-251-00	SOCKET, CONNECTOR 6P
F951	△ 1-532-285-00	FUSE, TIME-LAG
F952	△ 1-532-285-00	(E,Saudi Arabia)...FUSE, TIME-LAG
IC101	8-759-600-02	IC M5218L
IC102	8-759-800-33	IC LC7815H
IC301	8-759-804-48	IC LC7060AN
IC302	8-759-600-02	IC M5218L
IC303	8-759-602-60	IC M50765-440SP
IC401	8-759-600-02	IC M5218L
IC402	8-759-804-49	IC LC7522
IC403	8-759-113-18	IC UPC4574C
IC404	8-759-805-12	IC LC7560B
IC405	8-759-204-30	IC TC9176P
IC601	8-759-600-02	IC M5218L
IC602	8-749-941-52	IC STK415211
IC701	8-759-111-68	IC UPC1237HA
IC901	8-759-604-84	IC M5F7806
IC902	8-759-604-32	IC M5F7810
IC903	8-759-604-50	IC M5F7910
IC951	8-759-820-50	IC LC6528C-3649
IC952	8-759-604-84	IC M5F7806
ICP101	1-532-841-21	LINK, IC
ICP901	1-532-846-21	LINK, IC
ICP902	1-532-846-21	LINK, IC
J101	1-507-908-11	JACK, PIN 4P
J801	1-507-974-11	JACK
J851	1-563-951-11	JACK
L501	1-410-564-41	INDUCTOR 100UH
L601	1-410-397-21	(West Germany) ...FERRITE BEAD INDUCTOR 1.1UH
L651	1-410-397-21	(West Germany) ...FERRITE BEAD INDUCTOR 1.1UH
L951	1-410-564-21	INDUCTOR 100UH
LCD1	1-807-813-11	DISPLAY PANEL, LIQUID CRYSTAL
PL401	1-518-527-51	LAMP, PILOT
PL402	1-518-527-51	LAMP, PILOT
Q301	8-729-117-54	TRANSISTOR 2SA1175
Q302	8-729-117-54	TRANSISTOR 2SA1175
Q303	8-729-117-54	TRANSISTOR 2SA1175
Q304	8-729-117-54	TRANSISTOR 2SA1175
Q305	8-729-117-54	TRANSISTOR 2SA1175
Q306	8-729-117-54	TRANSISTOR 2SA1175
Q307	8-729-600-27	TRANSISTOR 2SC634SP
Q308	8-729-600-27	TRANSISTOR 2SC634SP
Q401	8-729-600-27	TRANSISTOR 2SC634SP
Q402	8-729-600-27	TRANSISTOR 2SC634SP
Q403	8-729-600-27	TRANSISTOR 2SC634SP
Q404	8-729-600-27	TRANSISTOR 2SC634SP
Q405	8-729-600-27	TRANSISTOR 2SC634SP
Q406	8-729-600-27	TRANSISTOR 2SC634SP
Q407	8-729-600-27	TRANSISTOR 2SC634SP
Q408	8-729-600-08	TRANSISTOR 2SK381-E
Q409	8-729-600-27	TRANSISTOR 2SC634SP
Q410	8-729-117-54	TRANSISTOR 2SA1175
Q451	8-729-600-27	TRANSISTOR 2SC634SP
Q452	8-729-600-27	TRANSISTOR 2SC634SP
Q453	8-729-600-27	TRANSISTOR 2SC634SP

Ref.No.	Part No.	Description
Q454	8-729-600-27	TRANSISTOR 2SC634SP
Q455	8-729-600-27	TRANSISTOR 2SC634SP
Q456	8-729-600-27	TRANSISTOR 2SC634SP
Q457	8-729-600-27	TRANSISTOR 2SC634SP
Q458	8-729-600-08	TRANSISTOR 2SK381-E
Q459	8-729-600-27	TRANSISTOR 2SC634SP
Q601	8-729-600-27	TRANSISTOR 2SC634SP
Q651	8-729-600-27	TRANSISTOR 2SC634SP
Q691	8-729-117-54	TRANSISTOR 2SA1175
Q701	8-729-108-05	TRANSISTOR 2SC1841-PA
Q702	8-729-117-54	TRANSISTOR 2SA1175
Q751	8-729-108-05	TRANSISTOR 2SC1841-PA
Q951	8-729-115-15	TRANSISTOR BN1A4M
Q952	8-729-600-27	TRANSISTOR 2SC634SP
Q953	8-729-801-83	TRANSISTOR 2SB1013
Q954	8-729-117-54	TRANSISTOR 2SA1175
R101	1-249-417-11	CARBON 1K 5% 1/4W
R102	1-249-417-11	CARBON 1K 5% 1/4W
R103	1-249-438-11	CARBON 56K 5% 1/4W
R104	1-249-418-11	CARBON 1.2K 5% 1/4W
R105	1-249-437-11	CARBON 47K 5% 1/4W
R106	1-215-487-00	CARBON 560K 5% 1/4W
R107	1-249-421-11	CARBON 2.2K 5% 1/4W
R108	1-249-411-11	CARBON 330 5% 1/4W
R109	1-249-433-11	CARBON 22K 5% 1/4W
R151	1-249-417-11	CARBON 1K 5% 1/4W
R152	1-249-417-11	CARBON 1K 5% 1/4W
R153	1-249-438-11	CARBON 56K 5% 1/4W
R154	1-249-418-11	CARBON 1.2K 5% 1/4W
R155	1-249-437-11	CARBON 47K 5% 1/4W
R156	1-215-487-00	CARBON 560K 5% 1/4W
R157	1-249-421-11	CARBON 2.2K 5% 1/4W
R158	1-249-411-11	CARBON 330 5% 1/4W
R159	1-249-433-11	CARBON 22K 5% 1/4W
R201	1-247-891-00	CARBON 330K 5% 1/4W
R202	1-247-891-00	CARBON 330K 5% 1/4W
R203	1-249-429-11	CARBON 10K 5% 1/4W
R204	1-247-891-00	CARBON 330K 5% 1/4W
R206	1-249-417-11	CARBON 1K 5% 1/4W
R207	1-249-428-11	CARBON 8.2K 5% 1/4W
R208	1-249-417-11	CARBON 1K 5% 1/4W
R209	1-249-425-11	CARBON 4.7K 5% 1/4W
R210	1-249-405-11	CARBON 100 5% 1/4W
R211	1-249-437-11	CARBON 47K 5% 1/4W
R221	1-249-441-11	CARBON 100K 5% 1/4W
R222	1-249-417-11	CARBON 1K 5% 1/4W
R223	1-247-895-00	CARBON 470K 5% 1/4W
R224	1-247-895-00	CARBON 470K 5% 1/4W
R225	1-247-891-00	CARBON 330K 5% 1/4W
R251	1-247-891-00	CARBON 330K 5% 1/4W
R252	1-247-891-00	CARBON 330K 5% 1/4W
R253	1-249-429-11	CARBON 10K 5% 1/4W
R254	1-247-891-00	CARBON 330K 5% 1/4W
R256	1-249-417-11	CARBON 1K 5% 1/4W
R257	1-249-428-11	CARBON 8.2K 5% 1/4W
R258	1-249-417-11	CARBON 1K 5% 1/4W
R259	1-249-425-11	CARBON 4.7K 5% 1/4W
R291	1-249-429-11	CARBON 10K 5% 1/4W



Note: The components identified by mark  or dotted line with mark  are critical for safety. Replace only with part number specified.

Ref.No.	Part No.	Description			
R301	1-249-429-11	CARBON	10K	5%	1/4W
R302	1-249-429-11	CARBON	10K	5%	1/4W
R303	1-249-429-11	CARBON	10K	5%	1/4W
R304	1-249-429-11	CARBON	10K	5%	1/4W
R305	1-247-891-00	CARBON	330K	5%	1/4W
R306	1-247-903-00	CARBON	1M	5%	1/4W
R307	1-249-425-11	CARBON	4.7K	5%	1/4W
R308	1-249-429-11	CARBON	10K	5%	1/4W
R309	1-249-429-11	CARBON	10K	5%	1/4W
R315	1-249-417-11	CARBON	1K	5%	1/4W
R316	1-249-441-11	CARBON	100K	5%	1/4W
R317	1-249-441-11	CARBON	100K	5%	1/4W
R318	1-249-441-11	CARBON	100K	5%	1/4W
R319	1-249-441-11	CARBON	100K	5%	1/4W
R320	1-249-417-11	CARBON	1K	5%	1/4W
R321	1-249-417-11	CARBON	1K	5%	1/4W
R322	1-249-417-11	CARBON	1K	5%	1/4W
R323	1-249-417-11	CARBON	1K	5%	1/4W
R324	1-249-414-11	CARBON	560	5%	1/4W
R325	1-249-429-11	CARBON	10K	5%	1/4W
R326	1-249-429-11	CARBON	10K	5%	1/4W
R327	1-249-429-11	CARBON	10K	5%	1/4W
R328	1-249-429-11	CARBON	10K	5%	1/4W
R329	1-249-423-11	CARBON	3.3K	5%	1/4W
R330	1-249-423-11	CARBON	3.3K	5%	1/4W
R331	1-249-423-11	CARBON	3.3K	5%	1/4W
R332	1-249-423-11	CARBON	3.3K	5%	1/4W
R333	1-249-429-11	CARBON	10K	5%	1/4W
R334	1-249-429-11	CARBON	10K	5%	1/4W
R335	1-249-429-11	CARBON	10K	5%	1/4W
R336	1-249-429-11	CARBON	10K	5%	1/4W
R337	1-249-429-11	CARBON	10K	5%	1/4W
R338	1-249-415-11	CARBON	680	5%	1/4W
R339	1-249-433-11	CARBON	22K	5%	1/4W
R340	1-249-441-11	CARBON	100K	5%	1/4W
R341	1-249-425-11	CARBON	4.7K	5%	1/4W
R342	1-249-429-11	CARBON	10K	5%	1/4W
R343	1-249-417-11	CARBON	1K	5%	1/4W
R344	1-249-434-11	CARBON	27K	5%	1/4W
R345	1-249-434-11	CARBON	27K	5%	1/4W
R346	1-249-426-11	CARBON	5.6K	5%	1/4W
R347	1-249-426-11	CARBON	5.6K	5%	1/4W
R348	1-249-438-11	CARBON	56K	5%	1/4W
R349	1-249-438-11	CARBON	56K	5%	1/4W
R352	1-249-409-11	CARBON	220	5%	1/4W
R353	1-249-409-11	CARBON	220	5%	1/4W
R355	1-249-429-11	CARBON	10K	5%	1/4W
R356	1-249-429-11	CARBON	10K	5%	1/4W
R357	1-249-429-11	CARBON	10K	5%	1/4W
R358	1-249-429-11	CARBON	10K	5%	1/4W
R359	1-249-429-11	CARBON	10K	5%	1/4W
R360	1-249-429-11	CARBON	10K	5%	1/4W
R361	1-249-429-11	CARBON	10K	5%	1/4W
R362	1-249-429-11	CARBON	10K	5%	1/4W
R363	1-249-429-11	CARBON	10K	5%	1/4W
R364	1-249-429-11	CARBON	10K	5%	1/4W
R365	1-249-429-11	CARBON	10K	5%	1/4W

Ref.No.	Part No.	Description			
R366	1-249-410-11	CARBON	270	5%	1/4W
R367	1-249-441-11	CARBON	100K	5%	1/4W
R368	1-249-423-11	CARBON	3.3K	5%	1/4W
R369	1-247-903-00	CARBON	1M	5%	1/4W
R371	1-249-429-11	CARBON	10K	5%	1/4W
R372	1-249-429-11	CARBON	10K	5%	1/4W
R373	1-249-425-11	CARBON	4.7K	5%	1/4W
R374	1-249-409-11	CARBON	220	5%	1/4W
R375	1-249-441-11	CARBON	100K	5%	1/4W
R376	1-249-429-11	CARBON	10K	5%	1/4W
R377	1-249-410-11	CARBON	270	5%	1/4W
R378	1-249-410-11	CARBON	270	5%	1/4W
R379	1-249-410-11	CARBON	270	5%	1/4W
R380	1-249-410-11	CARBON	270	5%	1/4W
R381	1-249-410-11	CARBON	270	5%	1/4W
R382	1-249-417-11	CARBON	1K	5%	1/4W
R383	1-249-441-11	CARBON	100K	5%	1/4W
R384	1-249-429-11	CARBON	10K	5%	1/4W
R385	1-249-429-11	CARBON	10K	5%	1/4W
R386	1-249-429-11	CARBON	10K	5%	1/4W
R388	1-247-903-00	CARBON	1M	5%	1/4W
R401	1-249-429-11	CARBON	10K	5%	1/4W
R402	1-247-903-00	CARBON	1M	5%	1/4W
R403	1-249-429-11	CARBON	10K	5%	1/4W
R405	1-249-430-11	CARBON	12K	5%	1/4W
R406	1-249-416-11	CARBON	820	5%	1/4W
R407	1-249-441-11	CARBON	100K	5%	1/4W
R408	1-247-903-00	CARBON	1M	5%	1/4W
R409	1-247-895-00	CARBON	470K	5%	1/4W
R410	1-247-895-00	CARBON	470K	5%	1/4W
R411	1-249-430-11	CARBON	12K	5%	1/4W
R412	1-249-416-11	CARBON	820	5%	1/4W
R413	1-249-441-11	CARBON	100K	5%	1/4W
R414	1-247-903-00	CARBON	1M	5%	1/4W
R415	1-249-430-11	CARBON	12K	5%	1/4W
R416	1-249-413-11	CARBON	470	5%	1/4W
R417	1-249-441-11	CARBON	100K	5%	1/4W
R418	1-247-903-00	CARBON	1M	5%	1/4W
R419	1-249-430-11	CARBON	12K	5%	1/4W
R420	1-249-414-11	CARBON	560	5%	1/4W
R421	1-249-441-11	CARBON	100K	5%	1/4W
R422	1-247-903-00	CARBON	1M	5%	1/4W
R423	1-249-430-11	CARBON	12K	5%	1/4W
R424	1-249-415-11	CARBON	680	5%	1/4W
R425	1-249-441-11	CARBON	100K	5%	1/4W
R426	1-247-903-00	CARBON	1M	5%	1/4W
R427	1-249-430-11	CARBON	12K	5%	1/4W
R428	1-249-415-11	CARBON	680	5%	1/4W
R429	1-249-441-11	CARBON	100K	5%	1/4W
R430	1-247-903-00	CARBON	1M	5%	1/4W
R431	1-249-430-11	CARBON	12K	5%	1/4W
R432	1-249-415-11	CARBON	680	5%	1/4W
R433	1-249-441-11	CARBON	100K	5%	1/4W
R434	1-247-895-00	CARBON	470K	5%	1/4W
R435	1-247-895-00	CARBON	470K	5%	1/4W
R436	1-247-895-00	CARBON	470K	5%	1/4W
R437	1-247-903-00	CARBON	1M	5%	1/4W

Ref.No.	Part No.	Description			
R438	1-249-421-11	CARBON	2.2K	5%	1/4W
R439	1-247-887-00	CARBON	220K	5%	1/4W
R440	1-249-435-11	CARBON	33K	5%	1/4W
R441	1-249-425-11	CARBON	4.7K	5%	1/4W
R451	1-249-429-11	CARBON	10K	5%	1/4W
R452	1-247-903-00	CARBON	1M	5%	1/4W
R453	1-249-429-11	CARBON	10K	5%	1/4W
R455	1-249-430-11	CARBON	12K	5%	1/4W
R456	1-249-416-11	CARBON	820	5%	1/4W
R457	1-249-441-11	CARBON	100K	5%	1/4W
R458	1-247-903-00	CARBON	1M	5%	1/4W
R459	1-247-895-00	CARBON	470K	5%	1/4W
R460	1-247-895-00	CARBON	470K	5%	1/4W
R461	1-249-430-11	CARBON	12K	5%	1/4W
R462	1-249-416-11	CARBON	820	5%	1/4W
R463	1-249-441-11	CARBON	100K	5%	1/4W
R464	1-247-903-00	CARBON	1M	5%	1/4W
R465	1-249-430-11	CARBON	12K	5%	1/4W
R466	1-249-413-11	CARBON	470	5%	1/4W
R467	1-249-441-11	CARBON	100K	5%	1/4W
R468	1-247-903-00	CARBON	1M	5%	1/4W
R469	1-249-430-11	CARBON	12K	5%	1/4W
R470	1-249-414-11	CARBON	560	5%	1/4W
R471	1-249-441-11	CARBON	100K	5%	1/4W
R472	1-247-903-00	CARBON	1M	5%	1/4W
R473	1-249-430-11	CARBON	12K	5%	1/4W
R474	1-249-415-11	CARBON	680	5%	1/4W
R475	1-249-441-11	CARBON	100K	5%	1/4W
R476	1-247-903-00	CARBON	1M	5%	1/4W
R477	1-249-430-11	CARBON	12K	5%	1/4W
R478	1-249-415-11	CARBON	680	5%	1/4W
R479	1-249-441-11	CARBON	100K	5%	1/4W
R480	1-247-903-00	CARBON	1M	5%	1/4W
R481	1-249-430-11	CARBON	12K	5%	1/4W
R482	1-249-415-11	CARBON	680	5%	1/4W
R483	1-249-441-11	CARBON	100K	5%	1/4W
R484	1-247-895-00	CARBON	470K	5%	1/4W
R485	1-247-895-00	CARBON	470K	5%	1/4W
R486	1-247-895-00	CARBON	470K	5%	1/4W
R487	1-247-903-00	CARBON	1M	5%	1/4W
R488	1-249-421-11	CARBON	2.2K	5%	1/4W
R489	1-247-887-00	CARBON	220K	5%	1/4W
R490	1-249-435-11	CARBON	33K	5%	1/4W
R491	1-249-425-11	CARBON	4.7K	5%	1/4W
R501	1-249-409-11	CARBON	220	5%	1/4W
R502	1-249-409-11	CARBON	220	5%	1/4W
R505	1-249-429-11	CARBON	10K	5%	1/4W
R506	1-249-429-11	CARBON	10K	5%	1/4W
R507	1-249-437-11	CARBON	47K	5%	1/4W
R508	1-249-437-11	CARBON	47K	5%	1/4W
R509	1-247-895-00	CARBON	470K	5%	1/4W
R510	1-249-431-11	CARBON	15K	5%	1/4W
R511	1-247-903-00	CARBON	1M	5%	1/4W
R512	1-249-439-11	CARBON	68K	5%	1/4W
R513	1-249-435-11	CARBON	33K	5%	1/4W
R514	1-247-895-00	CARBON	470K	5%	1/4W
R515	1-249-432-11	CARBON	18K	5%	1/4W

Ref.No.	Part No.	Description			
R516	1-247-903-00	CARBON	1M	5%	1/4W
R517	1-249-430-11	CARBON	12K	5%	1/4W
R518	1-247-903-00	CARBON	1M	5%	1/4W
R519	1-249-438-11	CARBON	56K	5%	1/4W
R520	1-249-424-11	CARBON	3.9K	5%	1/4W
R521	1-247-883-00	CARBON	150K	5%	1/4W
R522	1-249-409-11	CARBON	220	5%	1/4W
R523	1-247-903-00	CARBON	1M	5%	1/4W
R524	1-249-436-11	CARBON	39K	5%	1/4W
R525	1-249-432-11	CARBON	18K	5%	1/4W
R526	1-247-889-00	CARBON	270K	5%	1/4W
R527	1-249-431-11	CARBON	15K	5%	1/4W
R528	1-247-903-00	CARBON	1M	5%	1/4W
R529	1-249-429-11	CARBON	10K	5%	1/4W
R530	1-247-903-00	CARBON	1M	5%	1/4W
R531	1-249-432-11	CARBON	18K	5%	1/4W
R532	1-247-903-00	CARBON	1M	5%	1/4W
R535	1-247-903-00	CARBON	1M	5%	1/4W
R536	1-247-891-00	CARBON	330K	5%	1/4W
R537	1-247-903-00	CARBON	1M	5%	1/4W
R538	1-247-887-00	CARBON	220K	5%	1/4W
R544	1-249-411-11	CARBON	330	5%	1/4W
R551	1-249-426-11	CARBON	5.6K	5%	1/4W
R601	1-249-431-11	CARBON	15K	5%	1/4W
R602	1-249-421-11	CARBON	2.2K	5%	1/4W
R603	1-247-895-00	CARBON	470K	5%	1/4W
R604	1-249-421-11	CARBON	2.2K	5%	1/4W
R605	1-249-425-11	CARBON	4.7K	5%	1/4W
R606	1-247-903-00	CARBON	1M	5%	1/4W
R607	1-249-429-11	CARBON	10K	5%	1/4W
R608	1-249-429-11	CARBON	10K	5%	1/4W
R619	1-249-417-11	CARBON	1K	5%	1/4W
R620	1-249-417-11	CARBON	1K	5%	1/4W
R621	1-249-414-11	CARBON	560	5%	1/4W
R622	1-249-441-11	CARBON	100K	5%	1/4W
R623	1-247-903-00	CARBON	1M	5%	1/4W
R624	1-249-429-11	CARBON	10K	5%	1/4W
R631	1-249-425-11	CARBON	4.7K	5%	1/4W
R632	1-249-438-11	CARBON	56K	5%	1/4W
R633	1-249-438-11	CARBON	56K	5%	1/4W
R634	1-249-414-11	CARBON	560	5%	1/4W
R635	1-247-756-11	CARBON	2.2K	5%	1/2W
R636	1-247-756-11	CARBON	2.2K	5%	1/2W
R637	△.1-247-727-11	CARBON	10	5%	1/2W F
R638	△.1-249-420-11	CARBON	1.8K	5%	1/4W
R639	△.1-136-165-00	(West Germany)...CARBON	10	5%	1/2W F
R640	1-247-752-11	CARBON	1K	5%	1/2W
R641	1-247-752-11	CARBON	1K	5%	1/2W
R642	△.1-212-881-11	FUSIBLE	100	5%	1/4W F
R643	△.1-212-881-11	FUSIBLE	100	5%	1/4W F
R651	1-249-431-11	CARBON	15K	5%	1/4W
R652	1-249-421-11	CARBON	2.2K	5%	1/4W
R653	1-247-895-00	CARBON	470K	5%	1/4W
R654	1-249-421-11	CARBON	2.2K	5%	1/4W
R655	1-249-425-11	CARBON	4.7K	5%	1/4W
R656	1-247-903-00	CARBON	1M	5%	1/4W
R657	1-249-429-11	CARBON	10K	5%	1/4W

Note: The components identified by mark  or dotted line with mark  are critical for safety. Replace only with part number specified.

Ref.No.	Part No.	Description			
R658	1-249-429-11	CARBON	10K	5%	1/4W
R681	1-249-425-11	CARBON	4.7K	5%	1/4W
R682	1-249-438-11	CARBON	56K	5%	1/4W
R683	1-249-438-11	CARBON	56K	5%	1/4W
R684	1-249-414-11	CARBON	560	5%	1/4W
R685	1-247-756-11	CARBON	2.2K	5%	1/2W
R686	1-247-756-11	CARBON	2.2K	5%	1/2W
R687	△.1-247-727-11	CARBON	10	5%	1/2W F
R688	1-249-420-11	CARBON	1.8K	5%	1/4W
R689	△.1-136-165-00	(West Germany)...CARBON	10	5%	1/2W F
R691	1-249-417-11	CARBON	1K	5%	1/4W
R692	1-249-439-11	CARBON	68K	5%	1/4W
R693	1-249-441-11	CARBON	100K	5%	1/4W
R701	1-217-151-00	RES, METAL PLATE	0.22		
R702	1-249-414-11	CARBON	560	5%	1/4W
R703	1-249-414-11	CARBON	560	5%	1/4W
R704	1-247-881-00	CARBON	120K	5%	1/4W
R705	1-249-441-11	CARBON	100K	5%	1/4W
R706	1-249-433-11	CARBON	22K	5%	1/4W
R707	1-249-429-11	CARBON	10K	5%	1/4W
R708	1-249-433-11	CARBON	22K	5%	1/4W
R709	1-249-433-11	CARBON	22K	5%	1/4W
R710	△.1-247-744-11	CARBON	270	5%	1/2W F
R711	1-249-429-11	CARBON	10K	5%	1/4W
R712	1-249-437-11	CARBON	47K	5%	1/4W
R751	1-217-151-00	RES, METAL PLATE	0.22		
R752	1-249-414-11	CARBON	560	5%	1/4W
R753	1-249-414-11	CARBON	560	5%	1/4W
R754	1-247-881-00	CARBON	120K	5%	1/4W
R851	△.1-247-236-00	CARBON	680	5%	1/2W F
R852	△.1-247-236-00	CARBON	680	5%	1/2W F
R901	1-249-426-11	CARBON	5.6K	5%	1/4W
R902	△.1-213-078-61	FUSIBLE	56	5%	1W F
R936	1-249-393-11	CARBON	10	5%	1/4W
R951	1-249-425-11	CARBON	4.7K	5%	1/4W
R952	1-249-426-11	CARBON	5.6K	5%	1/4W
R953	1-249-429-11	CARBON	10K	5%	1/4W
R954	1-249-429-11	CARBON	10K	5%	1/4W
R955	1-249-417-11	CARBON	1K	5%	1/4W
R956	1-249-429-11	CARBON	10K	5%	1/4W
R957	1-249-429-11	CARBON	10K	5%	1/4W
R958	1-249-430-11	CARBON	12K	5%	1/4W
R959	1-249-441-11	CARBON	100K	5%	1/4W
R960	1-249-425-11	CARBON	4.7K	5%	1/4W
R961	1-249-425-11	CARBON	4.7K	5%	1/4W
R962	1-249-427-11	CARBON	6.8K	5%	1/4W
R963	1-249-429-11	CARBON	10K	5%	1/4W
R964	1-249-411-11	CARBON	330	5%	1/4W
R965	1-249-429-11	CARBON	10K	5%	1/4W
R966	1-249-425-11	CARBON	4.7K	5%	1/4W
R967	1-249-419-11	CARBON	1.5K	5%	1/4W

Ref.No.	Part No.	Description
RV301	1-237-646-11	RES, VAR, SLIDE 50K
RV302	1-237-647-11	RES, VAR, SLIDE 100K
RY701	1-515-503-00	RELAY
RY951	△.1-515-516-00	(UK, West Germany)...RELAY
RY951	△.1-515-601-11	(E, Saudi Arabia)...RELAY
S301	1-554-303-21	SWITCH, KEY BOARD (63Hz)
S302	1-554-303-21	SWITCH, KEY BOARD (150Hz)
S303	1-554-303-21	SWITCH, KEY BOARD (400Hz)
S304	1-554-303-21	SWITCH, KEY BOARD (1kHz)
S305	1-554-303-21	SWITCH, KEY BOARD (3kHz)
S306	1-554-303-21	SWITCH, KEY BOARD (6kHz)
S307	1-554-303-21	SWITCH, KEY BOARD (14kHz)
S308	1-554-303-21	SWITCH, KEY BOARD (EQ PRESET 1)
S309	1-554-303-21	SWITCH, KEY BOARD (EQ PRESET 2)
S310	1-554-303-21	SWITCH, KEY BOARD (EQ PRESET 3)
S311	1-554-303-21	SWITCH, KEY BOARD (EQ FLAT)
S312	1-554-303-21	SWITCH, KEY BOARD (DISPLAY)
S313	1-554-303-21	SWITCH, KEY BOARD (EQ MEMORY)
S314	1-554-303-21	SWITCH, KEY BOARD (EQ LEVEL -)
S315	1-554-303-21	SWITCH, KEY BOARD (EQ LEVEL +)
S316	1-554-303-21	SWITCH, KEY BOARD (TAPE)
S317	1-554-303-21	SWITCH, KEY BOARD (CD)
S318	1-554-303-21	SWITCH, KEY BOARD (TUNER)
S319	1-554-303-21	SWITCH, KEY BOARD (PHONO)
S320	1-554-303-21	SWITCH, KEY BOARD (VOLUME/+)
S321	1-554-303-21	SWITCH, KEY BOARD (VOLUME/-)
S322	1-554-303-21	SWITCH, KEY BOARD (MUTING)
S323	1-554-419-00	SWITCH, PUSH (1 KEY)(DBFB,SAT)
S951	1-554-303-21	SWITCH, KEY BOARD (POWER)
S952	△.1-571-437-11	(E, Saudi Arabia)SWITCH, POWER VOLTAGE CHANGE
T901	△.1-448-879-11	(E, Saudi Arabia)...TRANSFORMER, POWER
T901	△.1-448-880-11	(UK, West Germany)...TRANSFORMER, POWER
T951	△.1-449-194-11	TRANSFORMER, POWER
TM901	1-536-705-00	TERMINAL BOARD (SP)
VZ951	△.1-807-180-31	VARISTOR SNR-14A471U
X301	1-527-532-00	OSCILLATOR, CERAMIC
X302	1-527-532-00	OSCILLATOR, CERAMIC
X951	1-567-819-11	VIBRATOR, CERAMIC

Note: The components identified by mark **△** or dotted line with mark **△** are critical for safety. Replace only with part number specified.

